

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|------|
| ccacctcaga | caggcctgac | cacggcacgg | ctggtgggat | ttgccagtca | cctcaaccag | 480 |
| ccagttccac | cctcagcttc | tctcagaagg | gagcaccaca | ctcctcaagc | tcagtgaatg | 540 |
| tatccccgga | tgggtggggc | cagagcctgt | gatatactga | ggtgggctcg | gcaggacacc | 600 |
| ggggtgtgga | agggggaagc | gagcacctga | ctcagacagc | gcgggagctc | gcaggagtca | 660 |
| cgaggccaca | gcgacttcat | tgtctgactg | ggcctggacc | tataaacttc | ccacctcagc | 720 |
| cttggggcaa | gcctggaaga | taaaaatgga | gcaccccatg | gcgcccctca | ctcagattct | 780 |
| cccctgggct | tctcccacgc | agccccagaa | gaggacacac | cagccccaga | gttagcccca | 840 |
| gaggccccctg | agcctcctga | agagccccgc | ctaggagtgc | tgaccgtgac | cgacacaacc | 900 |
| ccagactcca | tgcgcctctc | gtggagcgtg | gcccagggcc | cctttgatct | cttcgtggtc | 960 |
| cagtatgagg | acacgaacgg | gcagccccag | gccttgctcg | tggacggcga | ccagagcaag | 1020 |
| atcctcatct | caggcctgga | gcccagcacc | ccctacaggt | tcctcctcta | tggcctccat | 1080 |
| gaagggaagc | gcctggggcc | cctctcagct | gagggcacca | cagggctggc | tcctgctggt | 1140 |
| cagacctcag | aggagtcaag | gccccgcctg | tcccagctgt | ctgtgactga | cgtgaccacc | 1200 |
| agttcactga | ggctcaactg | ggaggcccca | ccgggggcct | tcgactcctt | cctgctccgc | 1260 |
| tttgggggttc | catcaccaag | cactctggag | ccgcatccgc | gtccactgct | gcagcgcgag | 1320 |
| ctgatggtgc | cggggacgcg | gcactcggcc | gtgctccggg | acctgcgttc | cgggactctg | 1380 |
| tacagcctga | cactgtatgg | gctgcgagga | ccccacaagg | ccgacagcat | ccagggaacc | 1440 |
| gcccgcaccc | tcagcccagt | tctggagagc | ccccgtgacc | tccaattcag | tgaaatcagg | 1500 |
| gagacctcag | ccaaggtcaa | ctggatgccc | ccaccatccc | gggaggacag | cttcaaagtc | 1560 |
| tcctaccagc | tggcggacgg | aggggagcct | cagagtgtgc | aggtggatgg | ccaggcccgg | 1620 |
| accagaaac | tccaggggct | gatcccaggc | gctcgctatg | aggtgaccgt | ggtctcggtc | 1680 |
| cgaggctttg | aggagagtga | gcctctcaca | ggcttcctca | ccacgggttc | tgacgggtccc | 1740 |
| acacagttgc | gtgcactgaa | cttgaccgag | ggattcgccg | tgctgcactg | gaagcccccc | 1800 |
| cagaatcctg | tggacaccta | tgacgtccag | gtcacagccc | ctggggcccc | gcctctgcag | 1860 |
| gcggagaccc | caggcagcgc | ggtggactac | cccctgcatg | accttgctct | ccacaccaac | 1920 |
| tacaccgcca | cagtgcgtgg | cctgcggggc | cccaacctca | cttccccagc | cagcatcacc | 1980 |
| ttcaccacag | ggctagaggc | ccctcgggac | ttggaggcca | aggaagtgac | cccccgaccc | 2040 |
| gcctgctca | cttggactga | gccccagtc | cggccccgag | gctacctgct | cagcttccac | 2100 |
| acccctggtg | gacagaacca | ggagatcctg | ctcccaggag | ggatcacatc | tcaccagctc | 2160 |
| cttggcctct | ttgggtccac | ctcctacaat | gcacggctcc | aggccatgtg | gggcccagagc | 2220 |
| ctcctgccgc | ccgtgtccac | ctctttcacc | acgggtgggc | tgccgatccc | cttccccagg | 2280 |
| gactgcgggg | aggagatgca | gaacggagcc | ggtgcctcca | ggaccagcac | catcttcctc | 2340 |
| aacggcaacc | gcgagcggcc | cctgaacgtg | ttttgcgaca | tggagactga | tgggggcggc | 2400 |
| tggctggtgt | tccagcgccg | catggatgga | cagacagact | tctggaggga | ctgggaggac | 2460 |
| tatgcccctg | gttttgggaa | catctctgga | gagttctggc | tgggcaatga | ggccctgcac | 2520 |
| agcctgacac | aggcaggtga | ctactccatc | cgcgtggacc | tgccgggctg | ggacgaggct | 2580 |
| gtgttcgccc | agtacgactc | cttccacgta | gactcggctg | cggagtacta | ccgcctccac | 2640 |
| ttggagggct | accacggcac | cgcaggggac | tccatgagct | accacagcgg | cagtgtcttc | 2700 |
| tctgcccgtg | atcgggaccc | caacagcttg | ctcatctcct | gcgctgtctc | ctaccgaggg | 2760 |
| gcctggtggt | acaggaactg | ccactacgcc | aacctcaacg | ggctctacgg | gagcacagtg | 2820 |
| gaccatcagg | gagtgaactg | gtaccactgg | aagggtctcg | agttctcggt | gcccttcacg | 2880 |
| gaaatgaagc | tgagaccaag | aaactttcgc | tccccagcgg | ggggaggctg | agctgctgcc | 2940 |
| cacctctctc | gcacccagct | atgactgccg | agcactgagg | ggtcgccccg | agagaagagc | 3000 |
| cagggtcctt | caccacccag | ccgctggagg | aagccttctc | tgccagcgat | ctcgcagcac | 3060 |

tgtgtttaca ggggggaggg gaggggttcg tacaggagca ataaaggaga aactgaggtg 3120
cccgaataa 3128

<210> 954
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 954
tgcaaatgtc cttaactgag aggcactgag cagaaagaag aacacaattg catctccatt 60
atcttcatct gggccaccag ataccagcca cccactctct cagacaatgg cagaaaggac 120
aagccagccc ccagggaccc ggccctgcca gcttacctgt tggcacacct cccctgagca 180
ctgcagcctc accaactgtc tgggggtccct gagactgcct gtcacacctc acctctgagc 240
cttctgtct gctgttccct ctgcctggaa catcctctcc actccccctt aagaaccctt 300
ctaagcagct gtcttggtg actgctaatt gggcttttag gattcaaggg aaggcatcct 360
ggctttgggt ggcttccctt gaatggggca aaagatcnaa gtttaggggg tctttctctn 420
ggttgcttaa tctcaatag gaacttggt cccgatggtt aca 463

<210> 955
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 955
ggatngncac tagaaactgc tgctggaaac gggcggcggc tccacttagg gattcctgaa 60
gcagtgtttg tggaagatgt agattctttc atgaagcagc ctgggaatga gactgcagat 120
acagtgttaa agaagctgga tgaacaatac cagaagtata agtttatgga actcaacctt 180
gctcagaaaa aaaggaggct gaaaggctcag attcctgaaa ttaaacagac tttggaaatt 240
ctgaaatata tgcagaagaa aaaagagtct accaattcaa tggagacgag attcttactg 300
gcccgataac ctgtactgca aacttcagtc cctcctactg ataaagtatg cctatgggtg 360
ggggctaattg taatgcttga atatgatatt gatgaagctc aggccttggt gggaaaaga 419

<210> 956
<211> 914
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 956
ggcacgagct gtaaaccaaa agaggttact aagcaaaacc acctaaattt aagttggtga 60
tttaaatgaa tctcacatta aaagaaagct tgacagtgtt atgaaagcca ccagactcag 120
ccagtgtgtc cccatgggta tccccagcca tccctgctca atccattact tatatactaa 180
ctacataatg acctgttcaa accagactct atttaaatgaa ctgtgaattt acacagaggc 240
catttttaaat gggtcacccc atttaggatt agtggatctc aaattattaa ccaaacaatca 300
ctccatttca aagtaaaata ttccaccagc gatttgattt attggctctt ccattgccac 360
tgagcaatgc ccaggaagca ggcacattgc caaggactgg gggcatcttg actaggaagc 420
tctctgtttg tgtgagcgtg ggtcagaccg ccaaagtagg acttcatcgt ttacctacct 480
attatcaata tgggtgcttga atatattcct ataactgtag aacagtgtgg aaagtgatgg 540

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| taactttgaa | ggtgttcatg | tattattggc | tttgttttaa | ttgacactag | tagagtgtaa | 600 |
| ctgggtctgtg | tgtagattga | atgcttttcg | atgttttggt | ctcttaaaag | ttaagatgat | 660 |
| agacctcata | atgtgctggt | attggcagta | agaagaagag | aaaggtctta | tagcgcgcag | 720 |
| cttcggttatg | gggatatcgt | gcgcgcgctt | taagggcggg | aactcggccg | cgatgctgtg | 780 |
| gagcctctgc | agcgtgaaga | cccgcgctct | agccgtagga | agccttgggg | caggntggtg | 840 |
| gagatacgca | ggtgttctta | gagccaaacg | tgtgttcgca | tagggctgct | tcggttgcac | 900 |
| atctgggcac | cgaa | | | | | 914 |

<210> 957
 <211> 335
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|------------|------------|------------|------------|-------------|------------|-----|
| <400> 957 | ggtggatttt | cctacagcta | ttggtatggt | ggtagaaaga | gatgacggaa | gcacattaat | 60 |
| | ggaaatagat | ggcgataagg | caaacaaggc | ggtccaccta | ctacatagat | actaatgctc | 120 |
| | tgcgtgttcc | gagggagaat | atgaggccat | ttcacctcta | aaaaatggga | tggttgaaga | 180 |
| | ctggatagtt | tccaagctat | tttgatcat | acctacaaaa | tgcattgtcaa | atcagaagcc | 240 |
| | agtctccatc | ctgttctcat | gtcagaggca | ccctggaata | ctagagcaaa | gagagagaaa | 300 |
| | ctaacagatt | taatgtgtga | cactacaaca | tcct | | | 335 |

<210> 958
 <211> 324
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|-------------|------------|------------|------------|------------|------------|-----|
| <400> 958 | cctcgggtctt | gggctccact | gggcccctgg | ctccgggagc | ggcccctggc | tatgcacccc | 60 |
| | caccattcct | acacatcttg | ccagcccacc | agcagcccca | ctcacagctg | ctgcaccacc | 120 |
| | accttccgca | ggatgcacag | agtggctcgg | gtcagcgcac | cagcccagct | ccctgcagcc | 180 |
| | caagtctcaa | gcctccaaac | ctgcctacgg | aactctccat | actggacaaa | ctaaaccag | 240 |
| | aagagagggg | tgggctgggg | caaggcttat | cctgggcagg | agagaacaca | cgagcacgta | 300 |
| | tttggggagcc | cagtgccctt | tcct | | | | 324 |

<210> 959
 <211> 427
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|-----|
| <400> 959 | catttttatc | agtattgtga | ataaacttga | acacaaatac | acgagttcca | tgtcatgtct | 60 |
| | tcagttgtag | aagtttttcc | tctttaagg | aaagcgacca | acttgaactt | tctctggcaa | 120 |
| | cacgattcgc | agttatataa | gggaatcagt | gttcacgtct | ctgtatatat | ttatttatgt | 180 |
| | gtaatttaat | gggaattgta | aatatggtga | gtctgtttta | agcctttttt | ttttttat | 240 |
| | atctgatctt | gtttacctct | tgttttagtg | gttttgaatc | ttccctatta | gttcttcatg | 300 |
| | tggttcatgg | tactgattta | gaaatccagt | gtttggggga | tttttttctc | tgggattcat | 360 |
| | gaatttagcc | ctgttgtagc | atggtaaagg | tgacaaacag | ctggacaaat | ttttaaaaag | 420 |
| | taaaata | | | | | | 427 |

<210> 960
 <211> 2061
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|-----|
| <400> 960 | atgacgcccg | ccctcacagc | cctgctctgc | cttgggctga | gtctgggccc | caggaccgcg | 60 |
| | gtgcaggcag | ggcccttccc | caaaccacc | ctctgggctg | agccaggctc | tgtgatcagc | 120 |
| | tgggggagcc | ccgtgaccat | ctggtgtcag | gggagcctgg | aggcccagga | gtaccaactg | 180 |

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|------|
| gataaagagg | gaagcccaga | gcccttggac | agaaataacc | cactggaacc | caagaacaag | 240 |
| gccagattct | ccatcccac | catgacacag | caccatgcag | ggagataacc | ctgccactat | 300 |
| tacagctctg | caggctggtc | agagcccagc | gacccccctg | agctgggtgat | gacaggagcc | 360 |
| tatagcaaac | ccaccctctc | agccctgccc | agccctgtgg | tggcctcagg | ggggaatatg | 420 |
| accctccgat | gtggctcaca | gaagagatat | caccattttg | ttctgatgaa | ggaaggagaa | 480 |
| caccagctcc | cccggaccct | ggactcacag | cagctccaca | gtgggggggt | ccaggccctg | 540 |
| ttccctgtgg | gccccgtgaa | ccccagccac | aggtggaggt | tcacatgcta | ttactattat | 600 |
| atgaacaccc | cccgggtgtg | gtcccacccc | agtgaccccc | tggagattct | gccctcaggc | 660 |
| gtgtctagga | agccctccct | cctgaccctg | cagggccctg | tcctggcccc | tgggcagagc | 720 |
| ctgaccctcc | agtgtggctc | tgatgtcggc | tacgacagat | ttgttctgta | taaggagggg | 780 |
| gaacgtgact | tcctccagcg | ccctggccag | cagccccagg | ctgggctctc | ccaggccaac | 840 |
| ttcaccctgg | gccctgtgag | cccctccaat | ggggggccagt | acaggtgcta | cggtgcacac | 900 |
| aacctctcct | ccgagtggtc | ggcccccagc | gacccccctga | acatcctgat | ggcaggacag | 960 |
| atctatgaca | ccgtctccct | gtcagcacag | ccggggcccca | cagtggcctc | aggagagaac | 1020 |
| gtgaccctgc | tgtgtcagtc | atggtggcag | tttgacactt | tccttctgac | caaagaaggg | 1080 |
| gcagcccatc | cccactgcg | tctgagatca | atgtacggag | ctcataagta | ccaggctgaa | 1140 |
| ttcccccata | gtcctgtgac | ctcagcccac | gcggggacct | acaggtgcta | cggtcacgc | 1200 |
| agctccaacc | cctacctgct | gtctcaccac | agttagcccc | tggagctcgt | ggtctcagga | 1260 |
| cactctggag | gctccagcct | cccacccaca | gggcccgcct | ccacacctgg | tctgggaaga | 1320 |
| tacctggagg | ttttgattgg | ggtctcgggt | gccttcgtcc | tgctgctctt | cctcctcctc | 1380 |
| ttcctcctcc | tccgacgtca | gcgtcacagc | aaacacagga | catctgacca | gagaaagact | 1440 |
| gatttccagc | gtcctgcagg | ggctgcggag | acagagccca | aggacagggg | cctgctgagg | 1500 |
| aggtccagcc | cagctgctga | cgtccaggaa | gaaaacctct | atgctgccgt | gaaggacaca | 1560 |
| cagtctgagg | acgggggtgga | gctggacagt | cagagcccac | acgatgaaga | cccccaggca | 1620 |
| gtgacgtatg | ccccggtgaa | acactccagt | cctaggagag | aaatggcctc | tcctccctcc | 1680 |
| tcactgtctg | gggaattcct | ggacacaaag | gacagacagg | tggaagagga | caggcagatg | 1740 |
| gacactgagg | ctgctgcatc | tgaagcctcc | caggatgtga | cctacgcccc | gctgcacagc | 1800 |
| ttgaccctta | gacggaaggc | aactgagcct | cctccatccc | aggaagggga | acctccagct | 1860 |
| gagcccagca | tctacgccac | tctggccatc | cactagcccc | gggggtacgc | agaccccaca | 1920 |
| ctcagcagaa | ggagactcag | gactgctgaa | ggcacgggag | ctgccccag | tggacaccag | 1980 |
| tgaacccag | tcagcctgga | cccctaacac | agaccatgag | gagacgctgg | gaacttgtgg | 2040 |
| gactcacctg | actcaaagat | g | | | | 2061 |

<210> 961
 <211> 2697
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 961 | | | | | | |
| gctgagcagt | caacagcatt | tcttgttcca | agatcaccct | tctgagtacc | tctctggctg | 60 |
| ccaaattgcc | agggcettca | cagtttgatt | ccattctcag | ctccaagcat | taggtaaacc | 120 |
| caccaagcaa | tcctagcctg | tgatggcggt | tgacgtcagc | tgcttctttt | gggtgggtgct | 180 |
| gttttctgcc | ggctgtaaag | tcatcacctc | ctgggatcag | atgtgcattg | agaaagaagc | 240 |
| caacaaaaca | tataactgtg | aaaatttagg | tctcagtga | atccctgaca | ctctacaaa | 300 |
| cacaacagaa | tttttggaa | tcagctttta | ttttttgcct | acaattcaca | atagaacctt | 360 |
| cagcagactc | atgaatctta | cctttttgga | tttaactagg | tgccagatta | actggatata | 420 |
| tgaagacact | tttcaaagcc | atcatcaatt | aagcacactt | gtgttaactg | gaaatccccct | 480 |
| gatattcatg | gcagaaacat | cgcttaattg | gccaagtca | ctgaagcatc | ttttctta | 540 |

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------|
| ccaaacggga | atatccaatc | tcgagtttat | tccagtgcac | aatctggaaa | acttggaaaag | 600 |
| cttgtatctt | ggaagcaacc | atatttcctc | cattaagttc | cccaaagact | tcccagcacg | 660 |
| gaatctgaaa | gtactggatt | ttcagaataa | tgctatacac | tacatctcta | gagaagacat | 720 |
| gaggtctctg | gagcaggcca | tcaacctaa | cctgaacttc | aatggcaata | atgttaaagg | 780 |
| tattgagctt | ggggcttttg | attcaacgg | cttccaaa | ttgaactttg | gaggaactcc | 840 |
| aaatttgtct | gttatattca | atggtctgca | gaactctact | actcagtctc | tctggctggg | 900 |
| aacatttgag | gacattgatg | acgaagatat | tagttcagcc | atgctcaagg | gactctgtga | 960 |
| aatgtctgtt | gagagcctca | acctgcagga | acaccgcttc | tctgacatct | catccaccac | 1020 |
| atttcagtgc | ttcacccaac | tccaagaatt | ggatctgaca | gcaactcact | tgaaaggggt | 1080 |
| accctctggg | atgaagggtc | tgaacttgct | caagaaatta | gttctcagt | taaatcattt | 1140 |
| cgatcaattg | tgtcaaatca | gtgctgcca | tttcccctcc | cttacacacc | tctacatcag | 1200 |
| aggcaacgtg | aagaaacttc | accttggtgt | tggtgcttg | gagaaactag | gaaaccttca | 1260 |
| gacacttgat | ttaagccata | atgacataga | ggcttctgac | tgctgcagtc | tgcaactcaa | 1320 |
| aaacctgtcc | cacttgcaaa | ccttaaact | gagccacaat | gagcctcttg | gtctccagag | 1380 |
| tcaggcattc | aaagaatgtc | ctcagctaga | actcctcgat | ttggcattta | cccgttaca | 1440 |
| cattaatgct | ccacaaagtc | ccttccaaaa | cctccatttc | cttcagggttc | tgaatctcac | 1500 |
| ttactgcttc | cttgatacca | gcaatcagca | tcttctagca | ggcctaccag | ttctccggca | 1560 |
| tctcaactta | aaaggaatc | actttcaaga | tgggactatc | acgaagacca | acctacttca | 1620 |
| gactgtgggc | agcttgagg | ttctgatttt | gtcctcttgt | ggtctcctct | ctatagacca | 1680 |
| gcaagcattc | cacagcttgg | gaaaaatgag | ccatgtagac | ttaagccaca | acagcctgac | 1740 |
| atgcgacagc | attgattctc | ttagccatct | taagggaatc | tacctcaatc | tggtgccaa | 1800 |
| cagcattaac | atcatctcac | cccgtctcct | ccctatcttg | tcccagcaga | gcaccattaa | 1860 |
| tttaagtcac | aacccccctg | actgcacttg | ctcgaatatt | catttcttaa | catggtacaa | 1920 |
| agaaaacctg | cacaaaactg | aaggctcgga | ggagaccacg | tgtgcaaacc | cgccatctct | 1980 |
| aaggggagtt | aagctatctg | atgtcaagct | ttcctgtggg | attacagcca | taggcatttt | 2040 |
| ctttctcata | gtatttctat | tattgttggc | tattctgcta | ttttttgcag | ttaaataacct | 2100 |
| tctcaggtgg | aaataccaac | acatttagtg | ctgaagggtt | ccagagaaa | caaataagtg | 2160 |
| tgcttagcaa | aattgctcta | agtgaaggaa | ctgtcatctg | ctggtgacca | gaccagactt | 2220 |
| ttcagattgc | ttcctggaac | tgggcaggga | ctcactgtgc | ttttctgagc | ttcttactcc | 2280 |
| tgtgagtccc | agagctaaag | aaccttctag | gcaagtacac | cgaatgactc | agtccagagg | 2340 |
| gtcagatgct | gctgtgagag | gcacagagcc | ctttccgcat | gtggaagagt | gggaggaagc | 2400 |
| agagggaggg | actgggcagg | gactgccggc | cccggagtct | cccacaggga | ggccattccc | 2460 |
| cttctactac | cgacatccct | cccagcacca | cacaccccg | ccctgaaagg | agatcatcag | 2520 |
| ccccacaaat | ttgtcagagc | tgaagccagc | ccactaccca | ccccactac | agcattgtgc | 2580 |
| ttgggtctgg | gttctcagta | aatgtagcca | tttgagaaac | ttacttgggg | acaaagtctc | 2640 |
| aatccttatt | ttaaatgaaa | aaagaaaaga | aaagcataat | aaatttaaaa | gaaaagg | 2697 |

<210> 962
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
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| <400> | 962 | | | | | |
| tgaaggagag | acagagaact | ctgggttccg | tcgtcctgtc | cacgtgctgt | accaagtgtc | 60 |
| ggtgccagcc | tgttacctgt | tctcactgaa | aagtctggct | aatgtctctg | tgtagtcact | 120 |

| | | | | | | |
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| cccggggccc | acgagaaggc | gccccaggag | gcggccggcg | acggcgaggg | ggccggcgctg | 1440 |
| ctgggcctga | gtgcgtccgc | cgagtgccac | ctgtgcccag | tgtgcggaga | gtcgttcgcc | 1500 |
| agcaaggggc | ctcaggagcg | ccacctgcgc | ctgctgcacg | ccgcccaggt | gttcccctgc | 1560 |
| aagtactgcc | cggccacctt | ctacagctcg | cccggcctta | cgcggcacat | caacaagtgc | 1620 |
| cacccatccg | aaaacagaca | ggtgatcctc | ctgcagggtgc | ccgtgcgccc | ggcctgctag | 1680 |
| agcgcgcctt | ccaccccggc | ccccgaactg | tgccttcgct | tggagacca | caaagagagt | 1740 |
| gcgccttgca | cgccccgaac | ccgagtcgcg | gctgggggag | cctcgcccc | gccccaccg | 1800 |
| ggtgagagt | tcgtctccgc | ttctctcggt | gtggcgtgac | ggtaaccca | tactctcctt | 1860 |
| ttgactcctt | ttggaacccc | cacttttaag | ttgtgtccct | ccgcctcccc | catggcgcaa | 1920 |
| caggagtcag | tctctttctg | tacaagggag | aaaagctgta | cgcgtttgct | tcgtggttgg | 1980 |
| aagcctcccc | ttggcgggga | gaagcttttt | ttcttgctag | tattcgctgt | gttcatggct | 2040 |
| tagaaatgcg | gtctgggtctc | gcctcgccca | ccaatctctg | ctctctatgt | atgtagcgta | 2100 |
| cgggttggtt | tgggtgaatc | ttgaggaata | aatgccttta | tatttcacag | gctgtaaatt | 2160 |
| gaacttccca | cacgattagc | tttattatgg | cttgtgaact | gctggagtct | ggctttacct | 2220 |
| ttttgtatgt | gaacaaatca | aattgcttaa | aaaagagttt | tcttttagtat | agccacaaat | 2280 |
| gccttgaact | gttgtctggg | attgttttgt | ggggggaggg | aagggagtg | tccgaagatg | 2340 |
| ctgtagtaac | tgcctcagtg | tttcacgtaa | gacttttttg | tttgatcatc | tttggtgagg | 2400 |
| taggactatc | agttccctct | aaatgtatat | gttgatttat | gagtaattgt | tatttattct | 2460 |
| ttatttattt | atattaatta | tgaagattat | gatattat | gattgcagat | ttttttggcg | 2520 |
| cgctgcccc | tccccaccct | gccactcttg | acattccact | gtgcgtttta | gaagagagcc | 2580 |
| tttttctaaa | gggatctgct | taaagtttta | acttttatac | ctatctgagt | gaattacaga | 2640 |
| caacctatca | tttattctgc | ttcgagggtc | cccaggggcc | ttgtacaacc | gacagctctt | 2700 |
| acttttaaat | gcaatctctt | ttctacatac | attattttct | taattgttag | ctatttatag | 2760 |
| aaagcttcaa | tagaactgtt | tcaactgtat | aactattttac | tattcaaata | aaatattttc | 2820 |
| aaagtcaaaa | aaaaaaaa | | | | | 2838 |

<210> 967
 <211> 401
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 967 | | | | | | |
| aaaccccagc | gcagtnctct | tcctcctgct | actctggctc | ccagatacca | ccggagaaat | 60 |
| tgtgttgacg | cagctccagg | cacctgtct | ttgtctccag | gggaaagagc | cacctctcc | 120 |
| tgcagggccca | gtcagagtgt | tagcagcagc | tacttagcct | ggtagcagca | gaaacctggg | 180 |
| ccaggctccc | aggctcctca | tctatgggtg | atccagcagg | gccactggca | ttcccagaca | 240 |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ggttcagtgg | cagtgggtct | ggggacagat | ttcactcttc | accattcagc | agactgggag | 300 |
| cctgaagatt | tttgcaagtgt | atttactgtt | cagcagtatt | ggtagctcac | cgttcacttt | 360 |
| tcgggcggag | ggaccaaggt | tggagatcaa | acgaattttt | g | | 401 |

<210> 968
 <211> 316
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|-----------|------------|-------------|-------------|------------|------------|------------|-----|
| <400> 968 | tgaaaggggt | ttattttctgg | tgcacacaat | tgcttcattg | tgaatataca | tgtgattctc | 60 |
| | tgtacacagg | aaatggaatt | atgttcaaaa | taatagacac | agcaaacaag | tttctttgaa | 120 |
| | gttactaaaa | attaatgact | acataaaaata | aacattctaa | aactaagtaa | gtattattaa | 180 |
| | tttgaatagt | tagtaggtgt | aaggggaaaag | gcacacact | acaataaaca | aacaaaaacc | 240 |
| | aacatggcat | tcctcgcat | agggtaaagg | caccttcnaa | atatttttct | cttttatact | 300 |
| | ttttttttta | attgtg | | | | | 316 |

<210> 969
 <211> 498
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|-----|
| <400> 969 | ttaaagcaaa | gaattccccg | gtcccagcca | tgtccaacgt | ccccacaag | tcctcgctgc | 60 |
| | ccgagggcat | ccgccctggc | acggtgctga | gaattcgcg | cttggttcct | cccaatgcc | 120 |
| | gcagggtcca | tgtaaacctg | ctgtgcgggg | aggagcagg | ctccgatgcc | gccctgcatt | 180 |
| | tcaacccccg | gctggacacg | tcggaggtgg | tcttcaacag | caaggagcaa | ggctcctggg | 240 |
| | gccgcgagga | gcgcggggcg | ggcgttcctt | tccagcgcg | gcagcccttc | gaggtgctca | 300 |
| | tcacgcgctc | agacgacggc | ttcaaggccg | tggttgggga | cgcccagtac | caccacttcc | 360 |
| | gccaccgcct | gccgctggcg | cgcgtgcgcc | tggtggagg | gggcggggac | gtgcagctgg | 420 |
| | actccgtgag | gatcttctga | gcagaagccc | aggcgggccc | gggccttggc | tggcaaataa | 480 |
| | agcgtagcc | cgcagcgc | | | | | 498 |

<210> 970
 <211> 1234
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 970 | tagttcaaga | caacagagac | aaagctaaga | tgaggaagtt | ctgtacagtt | taggaaatag | 60 |
| | aggctttcaa | agataattcg | cagtgatgtg | aaactggcct | cccaagccct | gataacaaca | 120 |
| | tggccaacgc | cctggccagc | gccacttgcg | agcgctgcaa | gggcggcttt | gcgcccgcgtg | 180 |
| | agaagatcgt | gaacagtaat | ggggagctgt | accatgagca | gtgtttcgtg | tgcgctcagt | 240 |
| | gcttccagca | gttcccagaa | ggactcttct | atgagtttga | aggaagaaag | tactgtgaac | 300 |
| | atgactttca | gatgctcttt | gccccttgct | gtcatcagtg | tggtgaattc | atcattggcc | 360 |
| | gagttatcaa | agccatgaat | aacagctggc | atccggagtg | cttccgctgt | gacctctgcc | 420 |
| | aggaagttct | ggcagatata | gggtttgtca | agaatgctgg | gagacacctg | tgctgcccct | 480 |
| | gtcataatcg | tgagaaagcc | agaggccttg | ggaaatacat | ctgccagaaa | tgccatgcta | 540 |
| | tcacgatga | gcagcctctg | atattcaaga | acgacccta | ccatccagac | catttcaact | 600 |
| | gcgccaaactg | cgggaaggag | ctgactgccg | atgcacggga | gctgaaagg | gagctatact | 660 |
| | gcctcccatg | ccatgataaa | atgggggtcc | ccatctgtgg | tgcttgccga | cggcccatcg | 720 |
| | aagggcgcgt | ggtgaacgct | atgggcaagc | agtggcatgt | ggagcatttt | gtttgtgcc | 780 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| agtgtgagaa | accctttctt | ggacatcgcc | attatgagag | gaaaggcctg | gcatattgtg | 840 |
| aaactcacta | taaccagcta | tttggatgat | tttgcttcca | ctgcaatcgt | gttatagaag | 900 |
| gtgatgtggt | ctctgctctt | aataaggcct | ggtgcgtgaa | ctgctttgcc | tgttctacct | 960 |
| gcaacactaa | attaacactc | aagaataagt | ttgtggagtt | tgacatgaag | ccagtctgta | 1020 |
| agaagtgcta | tgagatttcc | attggagctg | aagaaaagac | ttaagaaact | agctgagacc | 1080 |
| ttaggaagga | aataagttcc | tttatttttt | cttttctatg | caagataaga | gattaccaac | 1140 |
| attacttgtc | ttgatctacc | catattttaa | gctatatctc | aaagcagttg | agagaagagg | 1200 |
| acctatatga | atgggtttat | gtcatttttt | taaa | | | 1234 |

<210> 971
 <211> 571
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 971 | | | | | | |
| gttccatttc | tatgggtttg | gacaccgatg | tagattatga | aactgcattt | attcattacc | 60 |
| gtctggcttc | tgagcagcaa | cacagtgcac | aagctatggt | taatctggga | tatatgcatg | 120 |
| agaaaggact | gggcattaaa | caggatattc | accttgcgaa | acgtttttat | gacatggcag | 180 |
| ctgtaagcca | gccagatgc | acaagttcca | gtcttcctag | ccctctgcaa | attgggcac | 240 |
| gtctatttct | tgagtagcat | acgggaaaca | aacattcgag | atatgttctc | ccaacttgat | 300 |
| atggaccagc | ttttgggacc | tgagtgggac | ctttacctca | tgaccatcat | tgcgctctgt | 360 |
| tgggaagtca | tagcttacag | gcaaaggcag | caccaagaca | tgcttgcacc | caggcctcca | 420 |
| gggccacggc | cagctccacc | ccagcaggag | gggccaccag | agcagcagcc | accacagtaa | 480 |
| taggcactgg | gtccagcctt | gatcagtgac | agcgaaggaa | gttatctgct | gggaacactt | 540 |
| gcatttgatt | taggaccttg | gggatccgat | g | | | 571 |

<210> 972
 <211> 1505
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 972 | | | | | | |
| tttacagggc | ataactcatt | ttatccttac | cacaatccta | tgaagtagga | acttttataa | 60 |
| aacgcatttt | atatncaagg | gcacagagag | gntaattaac | ttgccctctg | gtcacacagc | 120 |
| taggaagtgg | gcagagtaca | gatttacact | aggcatccgt | ctcctgnccc | cacatancca | 180 |
| gctgctgtaa | accataaccg | gcggccaagc | agcctcaatt | tgtgcatgca | cccacttccc | 240 |
| agcaagacag | cagctcccaa | gttcctcctg | tttagaattt | tagaagcggc | gggccaccag | 300 |
| gctgcagtct | cccttgggtc | aggggtcctg | gttgacttcc | gtgctttgca | caaagcaggc | 360 |
| tctccatttt | tgttaaattg | acgaatagt | ctaagctggg | aagttcttcc | tgaggtctaa | 420 |
| cctctagctg | ctccccaca | gaagagtgc | tgcgccagct | ggccaccagg | ggtcgccgca | 480 |
| gcaccacagc | ctggagggcg | gagcggggcg | cagaccggga | gcagcatgtg | gactctcggg | 540 |
| cgccgcgcag | tagccggcct | cctggcgctc | cccagcccgg | cccaggccca | gaccctcacc | 600 |
| cgggtcccgc | ggccggcaga | gttggcccca | ctctgcggcc | gccgtggcct | gcgcaccgac | 660 |
| atcgatgcga | cctgcacgcc | ccgcgcgcga | agttcgaacc | aacgtggcct | caaccagatt | 720 |
| tggaaatgtca | aaaagcagag | tgtctatttg | atgaatttga | ggaaatctgg | aactttgggc | 780 |
| caccacaggct | ctctagatga | gaccacctat | gaaagactag | cagaggaaac | gctggactct | 840 |
| ttagcagagt | tttttgaaga | ccttgacagc | aagccataca | cgtttgagga | ctatgatgtc | 900 |
| tcctttggga | gtggtgtctt | aactgtcaaa | ctgggtggag | atctaggaac | ctatgtgatc | 960 |

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|------|
| aacaagcaga | cgccaaacaa | gcaaactctgg | ctatcttctc | catccagtg | acctaagcgt | 1020 |
| tatgactgga | ctgggaaaaa | ctgggtgttc | tccacgacg | gcgtgtccct | ccatgagctg | 1080 |
| ctggccgcag | agctcactaa | agccttaaaa | accaaactgg | acttgctctg | gttggcctat | 1140 |
| tccggaaaag | atgcttgatg | cccagccccg | ttttaaggac | attaaaagct | atcaggccaa | 1200 |
| gaccccgagct | tcattatgca | gctgaggtgt | gttttttgtt | gttggtgttg | tttatttttt | 1260 |
| ttattcctgc | ttttgaggac | acttgggcta | tgtgtcacag | ctctgtacaa | acaatgtgtt | 1320 |
| gcctcctacc | ttgcccccaa | gttctgattt | ttaatttcta | tggaagattt | tttggtgtgt | 1380 |
| cggatttcct | ccctcacatg | ataccctta | tcttttataa | tgtcttatgc | ctatacctga | 1440 |
| atataacaac | ctttaaaaaa | gcaaaataat | aagaaggaaa | aattccagga | gggaaaaaaa | 1500 |
| aaaaa | | | | | | 1505 |

<210> 973
 <211> 14796
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|-------------|-------------|------------|------------|-------------|-------------|------|
| <400> 973 | tctagacatg | cggatatatt | caagctgggc | acagcacagc | agccccaccc | caggcagctt | 60 |
| | gaaatcagag | ctgggggtcca | aagggaccac | accccgagg | actgtgtggg | ggtcgggggca | 120 |
| | cacaggccac | tgtctcccc | cgtctttctc | agccattcct | gaagtcagcc | tactctgtct | 180 |
| | tctcagggat | ttcaaagtgt | cagagactct | ggcacttttg | tagaagcccc | ttctggctct | 240 |
| | aacttacacc | tggatgctgt | ggggctgcag | ctgctgctcg | ggctcgggag | gatgctgggg | 300 |
| | gcccgggtgcc | catgagcttt | tgaagctcct | ggaactcgg | tttgaggggtg | ttcaggtcca | 360 |
| | ggtggacacc | tgggctgtcc | ttgtccatgc | atgtgatgac | attgtgtgca | gaagtgaana | 420 |
| | ggagttaggc | cgggcatgct | ggcttatgcc | tgtaatccca | gcactttggg | aggctgaggc | 480 |
| | gggtggatca | cgaggtcagg | agttcaatac | cagcctggcc | aagatggtga | aaccccgctc | 540 |
| | ctactaaaaa | tacaaaaaaa | ttagccgggc | atggtggcgg | gcgcagttaa | ttccagctac | 600 |
| | tgggggggct | gaggcagaga | attgctggaa | cccaggagat | ggaggttgca | gtgagccaag | 660 |
| | attgtgccac | tgcactgcac | tccagcctgg | cgacagagca | agactctgtc | tcaaaaaaaaa | 720 |
| | aaaaaaaaag | tgaanaaggag | ttgttccttt | cctccctcct | gagggcaggc | aactgctgcg | 780 |
| | gttgccagtg | gaggtggtgc | gtccttggtc | tgtgcctggg | ggccacccca | gcagaggcca | 840 |
| | tgggtggtgcc | agggcccggg | tagcgagcca | atcagcagga | cccaggggcg | acctgccaaa | 900 |
| | gtcaactgga | tttgataact | gcagcgaagt | taagtttcct | gattttgatg | attgtgttgt | 960 |
| | ggttgtgtaa | gagaatgaag | tatttcgggg | tagtatggta | atgccttcaa | cttacaaacg | 1020 |
| | gttcaggtaa | accaccata | tacatacata | tacatgcatg | tgatataatac | acatacaggg | 1080 |
| | atgtgtgtgt | gttcacatat | atgaggggag | agagactagg | ggagagaaag | taggttgggg | 1140 |
| | agagggagag | agaaaggaaa | acaggagaca | gagagagagc | ggggagtaga | gagagggaag | 1200 |
| | gggtaagaga | gggagaggag | gagagaaagg | gaggaagaag | cagagagtga | atgttaaagg | 1260 |
| | aaacaggcaa | aacataaaca | gaaaatctgg | gtgaagggtg | tatgagtatt | ctttgtacta | 1320 |
| | ttcttgcaat | tatcttttat | ttaaattgac | atcgggccgg | gcgcagtggc | tcacatctgt | 1380 |
| | aatcccagca | ctttgggagg | ccgaggcagg | cagatcactt | gaggtcagga | gtttgagacc | 1440 |
| | agcctggcaa | acatggtgaa | accccatctc | tactaaaaat | acaaaaatta | gcctgggtgtg | 1500 |
| | gtggtgcatg | cctttaatct | cagctactcg | ggaggctgag | gcaggagaat | cgcttgaaac | 1560 |
| | cgtggcgggg | aggaggttgc | agtgagctga | gatcatgcca | ctgcactcca | gcctgggcga | 1620 |
| | tagagcgaga | ctcagtttca | aataaataaa | taaacatcaa | aataaaaagt | tactgtatta | 1680 |
| | aagaatgggg | gcgggggtggg | aggggtgggg | agaggttgca | aaaataaata | aataaataaa | 1740 |
| | taaaccctaa | aatgaaaaag | acagtggagg | caccaggcct | gcgtggggct | ggagggctaa | 1800 |
| | taaggccagg | cctcttatct | ctggccatag | aaccagagaa | gtgagtggat | gtgatgccca | 1860 |

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|------|
| gctccagaag | tgactccaga | acaccctggt | ccaaagcaga | ggacacactg | atTTTTTTTT | 1920 |
| taataggctg | caggacttac | tgttggtggg | acgccctgct | ttgcgaaggg | aaaggaggag | 1980 |
| tttgccctga | gcacaggccc | ccaccctcca | ctgggctttc | cccagctccc | ttgtcttctt | 2040 |
| atcacggtag | tggcccagtc | cctggccctt | gactccagaa | ggtggccctc | ctggaaaccc | 2100 |
| aggtcgtgca | gtcaacgatg | tactcgccgg | gacagcgatg | tctgctgcac | tccatccctc | 2160 |
| ccctgttcat | ttgtccttca | tgcccgtctg | gagtagatgc | tttttgcaga | ggtggcaccc | 2220 |
| tgtaaagctc | tcctgtctga | ctTTTTTTTT | ttttttagac | tgagttttgc | tcttgttgcc | 2280 |
| taggctggag | tgcaatggca | caatctcagc | tcactgcacc | ctctgcctcc | cgggttcaag | 2340 |
| cgattctcct | gcctcagcct | cccagtagt | tgggattaca | ggcatgcacc | accacgcccc | 2400 |
| gctaattttt | gtatttttag | tagagacaag | gtttcacctg | gatggccagg | ctggtcttga | 2460 |
| actccaggac | tcaagtgatg | ctcctgccta | ggcctctcaa | agtgttggga | ttacaggcgt | 2520 |
| gagccactgc | acccggcctg | cacgcgttct | ttgaaagcag | tcgagggggc | gctaggtgtg | 2580 |
| ggcagggacg | agctggcgcg | gcgtcgctgg | gtgcaccgcg | accacgggca | gagccacgcg | 2640 |
| gcgggaggac | tacaactccc | ggcacacccc | gcgccgcccc | gcctctactc | ccagaaggcc | 2700 |
| gcggggggtg | gaccgcctaa | gagggcgctg | gctcccagca | tgccccgcgg | cgcgccatta | 2760 |
| accgccagat | ttgaatcgcg | ggaccctgtg | gcagaggtgg | cggcgggcgg | atgggtgccc | 2820 |
| cgacgttgcc | ccctgcctgg | cagccctttc | tcaaggacca | ccgcatctct | acattcaaga | 2880 |
| actggccctt | cttgaggggc | tgcgcttgca | ccccggagcg | ggtgagactg | cccggcctcc | 2940 |
| tggggtcccc | cacgcccgcg | ttgcctgtgc | cctagcgagg | ccactgtgac | tgggcctcgg | 3000 |
| gggtacaagc | cgccctcccc | tccccgtcct | gtccccagcg | aggccactgt | ggctgggccc | 3060 |
| cttgggtcca | ggccggcctc | ccctccctgc | tttgtcccca | tcgaggcctt | tgtggctggg | 3120 |
| cctcgggggt | ccgggctgcc | acgtccactc | acgagctgtg | ctgtcccttg | cagatggccg | 3180 |
| aggctggctt | catccactgc | cccactgaga | acgagccaga | cttggcccag | tgtttcttct | 3240 |
| gcttcaagga | gctggaaggc | tgggagccag | atgacgaccc | catgtaagtc | ttctctggcc | 3300 |
| agcctcgatg | ggctttgttt | tgaactgagt | tgtcaaaaga | tttgagttgc | aaagacactt | 3360 |
| agtatgggag | ggttgctttc | caccctcatt | gcttcttaaa | cagctgttgt | gaacggatac | 3420 |
| ctctctatat | gctggtgcct | tgggtgatgt | tacaacctaa | ttaaatctca | tttgacccaa | 3480 |
| atgccttggg | gtggacgtaa | gatgcctgat | gcctttcatg | ttcaacagaa | tacatcagca | 3540 |
| gaccctgttg | ttgtgaactc | ccaggaatgt | ccaagtgcct | tttttgagat | tttttaaaaa | 3600 |
| acagtttaat | tgaaatataa | cctacacagc | acaaaaatta | ccctttgaaa | gtgtgcactt | 3660 |
| cacactttcg | gaggctgagg | cgggcggatc | acctgaggtc | aggagttaaa | gacctgcctg | 3720 |
| gccaacttgg | cgaaaccccc | tctctactaa | aaatacaaaa | attagccggg | catggtagcg | 3780 |
| cacgcccgtg | atcccagcta | ctcgggaggg | taaggcagga | gaatcgcttg | aacctgggag | 3840 |
| gcggagggtg | cagttagccg | agattgtgcc | aatgcactcc | agcctcggcg | acagagcgag | 3900 |
| actccgtcat | aaaaataaaa | aattgaaaaa | aaaaaaagaa | agaaagcata | tacttcagtg | 3960 |
| ttgttctgga | tttttttctt | caagatgcct | agttaatgac | aatgaaattc | tgtactcgga | 4020 |
| tggatatctg | ctttccacac | tgtaatgcca | tattcttttc | tcaccttttt | ttctgtcgga | 4080 |
| ttcagttgct | tccacagctt | taattttttt | cccctggaga | atcaccccag | ttgtttttct | 4140 |
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| aggaggcctt | cttccagtgc | caagtgtgtg | cccacacgac | ccgggtggag | atggaccgcg | 1140 |
| gccgcattgc | agagcccagt | gtgtgcgggc | gctgccacac | cacccacagc | atggcactca | 1200 |
| tccacaaccg | ctccctcttc | tctgacaagc | agatgatcaa | gcttcaggag | tctccggaag | 1260 |
| acatgcctgc | agggcagaca | ccacacacag | ttatcctggt | tgctcacaat | gatctcgttg | 1320 |
| acaaggtcca | gcctggggac | agagtgaatg | ttacaggcat | ctatcgagct | gtgcctattc | 1380 |
| gagtcaatcc | aagagtgagt | aatgtgaagt | ctgtctacaa | aacccacatt | gatgtcattc | 1440 |
| attatcgga | aacggatgca | aaacgtctgc | atggccttga | tgaagaagca | gaacagaaac | 1500 |
| ttttttcaga | gaaacgtgtg | gaattgctta | aggaactttc | caggaaacca | gacatttatg | 1560 |
| agaggcttgc | ttcagccttg | gctccaagca | tttatgaaca | tgaagatata | aagaagggaa | 1620 |
| ttttgcttca | gctctttggc | gggacaagga | aggattttag | tcacactgga | agggggcaaat | 1680 |
| ttcgggctga | gatcaacatc | ttgctgtgtg | gcgacctggg | taccagcaag | ttccagctgc | 1740 |
| tgcagtacgt | gtacaacctc | gtccccaggg | gccagtacac | gtctgggaag | ggctccagtg | 1800 |
| cagttggcct | cactgcgtac | gtaatgaaag | accctgagac | aaggcagctg | gtcctgcaga | 1860 |
| caggtgctct | tgctctgagt | gacaacggca | tctgctgtat | cgatgagttc | gacaagatga | 1920 |
| atgaaagtac | aagatcggta | ttgcatgaag | tcattggaaca | gcagactctg | tccattgcaa | 1980 |
| aggctgggat | catctgtcag | ctcaatgcgc | gcacctctgt | cctggcagca | gcaaatecca | 2040 |
| ttgagtctca | gtggaatcct | aaaaaaacaa | ccattgaaaa | catccagctg | cctcatactt | 2100 |
| tattatcaag | gtttgatttg | atcttctcca | tgctggaccc | tcaggacgaa | gcctatgaca | 2160 |
| ggcgtctggc | tcaccacctg | gtcgcactgt | actaccagag | cgaggagcag | gcagaggagg | 2220 |
| agctcctgga | catggcgggtg | ctaaaggact | acattgccta | cgcgcacagc | accatcatgc | 2280 |
| cgcggtctaa | tgaggaagcc | agccaggctc | tcacagaggg | ttatgtagac | atgaggaaga | 2340 |
| ttggcagtag | ccgggggaatg | gtttctgcat | accctcgaca | gctagagtca | ttaatccgct | 2400 |
| tagcagaagc | ccatgctaaa | gtaagattgt | ctaacaaagt | tgaagccatt | gatgtggaag | 2460 |
| aggccaaacg | cctccatcgg | gaagctctga | agcagtctgc | aactgatccc | cggactggca | 2520 |
| togtggacat | atctattctt | actacgggga | tgagtgccac | ctctcgtaaa | cggaagaag | 2580 |
| aattagctga | agcattgaaa | aagcttattt | tatctaaggg | caaaacacca | gctctaaaat | 2640 |
| accagcaact | ttttgaagat | attcggggac | aatctgacat | agcaattact | aaagatatgt | 2700 |
| ttgaagaagc | actgcgtgcc | ctggcagatg | atgatttcct | gacagtgact | gggaagaccg | 2760 |
| tgcgcttgct | ctgaagcctt | gtgagcaagg | aaggctccct | gcatgtcatg | caattctgca | 2820 |
| cgccacatgg | gtgtggtcat | gcaatcatca | gttgcccgcc | atcagtgtaa | atagagctta | 2880 |
| aagtcatggt | ttggctgcat | aaaaaatttt | ctaacttggg | ttcaatattt | gtagtgaagt | 2940 |
| atctgttttc | atttttttca | cgttataaat | aaaaatacta | tgctggccgg | gcgcgggtggc | 3000 |
| tcacacctgt | aatcccagca | ctttgggagg | ccaatgtggg | tggatcatga | ggtcaggagt | 3060 |
| tcaagaccag | cctagccaag | atggtgaaac | cccgtctcta | gtaaagataa | caaaaaatta | 3120 |
| gctgggcttg | atggcatgcg | cctgtaatcc | cagctactcg | ggaggttgag | gcaggagatc | 3180 |
| gcttaaacc | aggcggcaga | ggttgcatgt | agccaagatc | gcgccactgc | actccagcct | 3240 |
| cagcaataga | gtgagactgt | ctcaaaaaaa | aaa | | | 3273 |

<210> 977
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 977
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 aagtggctag ggagctcccc agagagaaca tgaggaggag gcttttttagg acaaatagat 120
 aaaagcaaag ataataatttc attggttaca gttatacagt tacacagtta tacagttgcc 180
 ttatttggtc tatcccatga ggaagtccta gttactaatt acgtttttgt tggctgcttc 240
 tgattggttg agcttaagtt ctgtgtttct ttaacatagg catttacaag aaataccaca 300
 aataaagttt cagacatgct tgcaaatcaa gcaagggttaa ggtcacttag ggggcccac 360
 tggctctgtc tgctcaagga ttcttctggc ctcgtctcca ttttacatga actggttgca 420
 taaataaaca cagagta 437

<210> 978
 <211> 456
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 978
 tttttttttt tttttttaat agaacaggtc aagataaggc tttatttcta tagaaatgat 60
 gctttgacaa tagtttggtc tgggtgtaagg ctcacaaaag aaaatcacat gtaccatgtg 120
 tgggttaagc ggtttgatcc aactgaacc agggcagccc agttgccctc tgctgtgtcc 180
 acccgtggag tggagctgtg tcacagccat cacactggta aactgctgta gctggtttac 240
 caggctttct cttgccctga cagtacaggt gaagcctgta aataaatctt ctgctatctt 300
 tgtgaactta accaaatccc agttacctta tttaaatggc aatagatctg ttttccctta 360
 aactagaaac cttaattacc tgtattccta cctccagctc aacccatata tttgcanctt 420
 tccagtaagc aggttttgta ttttccatcg cccct 456

<210> 979
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 979
 ttcattgtttc cagaaatctc ttttatttct ttagatatat aaaacactgt tactttatat 60
 tctctctgat aattctagta tctgggtcta gagtcaatct gttgcttctg ctgggtctca 120
 tagtgtattg tttccttggt gtgtttatga atttttaaac ctggatctct cattttcttt 180
 ctttcttttt ttttcttgt agagatgggg tctctcactg cgttgcccag gctgctctgg 240
 aactcctggc ctcaagtgtc gggattccag gcgtgaacca ccacgcccgg ctgagatgtt 300
 ccttttctctt ggaacttgat tcaacacaaa atcctgaggc ctggtgtggg tgtgttcttc 360
 tggggcagat tctcaactgg ggacacttct gcccccaagg acacattttc aacatcctga 420
 gacatttccg ggtgtcatca cagtgtg 447

<210> 980
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 980
 gagggaaaga caaaacgtat ttattccagg ccagggtctta aatgcacac tgcacgggtc 60
 cctgttggtta tcagcaccag taaggaaaga acgtgcctta acggcagccc caccagagc 120
 ctgctgcgtg gctgctgtga ggctcccat gaatccacgc agtcttcttc ctactgggtg 180
 cagttgggtga ggttttctac cctcacagca aagggatcct taactataaa ttcacgggtat 240
 gcagagaaga ggacagaatc t 261

<210> 981
 <211> 545

<212> DNA
<213> Homo sapiens

<220> misc feature
<221> n=a,t,g or c
<223>

<400> 981
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attttacatt atttcttctg ttatatTTTT acgctttgtg ccagaattta cttcttgcaa 120
ctattcttgc tttatctgga acagtttact ccgttattga atatctatta gtgtttaata 180
tagaagagct taataaaccg ctaatccgaa aataatggta ttcccttgct tttcagacct 240
ttttgctgaa tatgcttatt tatgtccaat gtggaaatct gatcctgctc tcttccactc 300
tgccagcagt tccttttgta ctgcttctgg tagttcatag aaaacttgag gatcaatgtc 360
agaagggaaa gtaattttct catcaacaga atctggctct ctattttctg taagtcctca 420
tgagagtcgt tgctactgtt tgcttatggg catcgtagtg tggtttctgg agaaaagttg 480
ctcactctgc aagtttgga atgaatgaa agcagacnca gcagggnttg aatttggtaa 540
agtgg 545

<210> 982
<211> 376
<212> DNA
<213> Homo sapiens

<400> 982
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ttaaattctc acttacttgg acatagaata tcagcagtct caaagtcatt caccggcgag 120
ataggcaaaa atgagtcctt tgaagatgaa gtacaaaaag actattgaaa agtattttgc 180
acattaaatg ctaagctata ggatataaac atcttatttt cagaaagaga tttctggata 240
tattttcttaa ggtcagtgga cgaagccaga attctactat aatgtataac cctatagcac 300
tgaaatctat tttttcctgt atattaatca tgtagtcatg caatactaaa gtatagttac 360
agatttctaataaatag 376

<210> 983
<211> 287
<212> DNA
<213> Homo sapiens

<400> 983
caaagtttaa ttcaatttta ttttccactt ttagtatttt tcaaattata caacatgcag 60
tctgccagag taccataca tcttcatttt agaacctaga agattaccaa aattttccgt 120
gggccagagg agggtgactt ccagatcttt tgttacatgg actatagtag agcatcgta 180
ttgatataaa ccaccattct cccctcaaac ccccgagaca agtttgtcca caattttttt 240
aatgtgaaag ctactgtaca gatacttaaa gcccggagaa cacacat 287

<210> 984
<211> 388
<212> DNA
<213> Homo sapiens

<400> 984
tgggggtagg ctctttatta gacgggttatt gctgtactac agggtcagag tgcagtgtaa 60
gcagtgtcag agggccgcgt tcagcccaag aatgtgggat ttctctccct attgatcaca 120
gtgggtgggt ttcttcagaa aagccccaga ggcagggacc agtgagctcc aagggttagaa 180
gttggaactgg aaggcttcag tcacatgctg ctttcaagct ttcaggctgg gcaacaagga 240
ggagatgcc atgacgtgcc agggctctcc catctgacac cagtgaagtc tggtaagaca 300
gcagccgcac gcctgcctct gccaggagg caatcatggt aggcagcatt gcagggtcag 360
aggtctgagt ccggaatagg agcaaggg 388

09954456 094504

<210> 985
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 985
 gccccaaaat atttttttatt cttgcattac atttgtgttt ccaattgtga ataaaaaatg 60
 cttagaaagt gggtacaaaa cagcgtgaac tggacaggag gagcagctgg ccctgagggt 120
 ccgtcacttc tccacttaga cggcgtgaag tgggcctggc gtctaggcgg ggtcagtcag 180
 gcttctcact ctcaggatct ggtgtgggca cggacagggt cggggcggct ccgggaatga 240
 ccgtggtgga cagagggccg ggcgctgg 268

<210> 986
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 986
 gggtgtggaa acatgtgagt gtattattta tttttgaata aataatacaa taaaatataa 60
 aacatacact tattgtggcc ctctgcacaa gcaatctggt tgtgcagagt cttggtgtcc 120
 cctgctagtc ttagtacctg tatagagctc ttcagactgg gtgtcgtgtt gcagaggcta 180
 gcaccattcc tgatgtcacc ctgggtgaga cgtggctctc agaatccaga tttccttttt 240
 tgtctttttc cttcttccac atgttctaag aaaacataga tttctggcca ggcattggtg 300
 ctcacgctg taatcccagt actttgggag 330

<210> 987
 <211> 374
 <212> DNA
 <213> Homo sapiens

<400> 987
 tttttaatat ttaaaatggt taatagttaa aattttttta caatttaact ttaaaaaggt 60
 cacacatttt ctgatccagc aatgccccaa tcagattgtt tcatttttatt attattatca 120
 acactgtccc ctttttggca cctgtaaaat agttcctttc gggagtttgg agccaggcca 180
 ggcaccgtcg gctatgggga tgagatgggc aggtttggag ctcctctgtc tagtgaggat 240
 cacggtctgc agagaagggt tggcctcccc gtctcctatc aaggcttaaa gcaaggagaa 300
 ccatcccaaa tttggttctt tttcccctaa gtatccttag aggcaatcca ccctgtgact 360
 aggtgactag gtga 374

<210> 988
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 988
 ttttttacct taagaaaaac caatcgcttt atttttcctc aatatatgtt tagaaaactg 60
 gtctgagaag aggtttcatg agatagacca gaggactatg tacaaaatca agagttctaa 120
 accaataaga aaaagggcac aatgaagcac acatccccag gggccacggc agcctaggac 180
 cttcctatca gtggggaggc aaggtctttg acggcttttg agttcagctg agggatcatg 240
 ctgatcttca ggagtttgct gcttgcatac ttattcttga tggc 284

<210> 989
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 989
 tttttttttt tttgtcaatt attttattga gcagaaagtt aatggttaca cgtaccataa 60
 cagtagattc ttagaggatt ccaatttcct gttagtagatt taagtacat cataaaattc 120
 tcaatatatg atatttactg ataatgacat ttgaattgtc acttctccac caataagtct 180
 tccaaaaagc acaagactat tattattatt ccaattgtct gttttagtag tacactttat 240

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| cttacttctt | agcttctttg | aactatTTTT | tctttacaat | tcattccactt | aatattcttg | 300 |
| cgatagaaat | aattttcaaa | ataaaaagtga | gacaaaaagg | ataaaaagtc | atacactcta | 360 |
| attcaaattt | caacatttat | aaaaatc | | | | 387 |

<210> 990
 <211> 303
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|-----|
| <400> 990 | tttcaatttc | ttcaacaggt | catgttcaat | ttcttcaaag | ttttaacata | aaaataatga | 60 |
| | gagccaggag | tggggccggg | gctgggggga | cgaagggtgt | atgtgaacaa | ggttggcaca | 120 |
| | caggcctcac | cctcctctgc | ctcagattcc | caagtgggca | ggtgggggtg | aatggggctc | 180 |
| | cgggtagcac | ctcagctcct | ctcagctccc | ctcagcctgt | tctccttcca | gacccagaga | 240 |
| | gctgagaaga | gtagctgtga | ggctcagggc | agaggctctc | tgcctttcag | gaacagccct | 300 |
| | aac | | | | | | 303 |

<210> 991
 <211> 523
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 991 | tttttttttt | tttttttttt | tttttttttt | tttttttttt | acagggtaaa | ggctctgttg | 60 |
| | acttcagcac | gaccaccca | gccccaggca | ggcagaacag | ctaggtgaag | aggcggacag | 120 |
| | tcccgctctgc | ccccgaggag | aagaccacag | gctgggtggg | gtggaagatg | acgtccagca | 180 |
| | ctcccagatc | tcgggtcagc | acgtgtccct | tcagcacctt | gacgggcacc | agcaaggggt | 240 |
| | tctgcagaag | gtcattgtac | accatgccat | ggcagacgat | gacactgccg | tcgtccgagc | 300 |
| | ctgacgcaaa | gagtgggtac | cgcggttgga | aggccacagc | ccgcagagcc | ttcttgtggt | 360 |
| | gtctcagcat | cctgtatggc | ttggtggaaa | gatccaggtc | aaaccacacc | agcttgctat | 420 |
| | cgtagctccc | acagatgacg | ttgtcacctg | caggggtgcac | cgccaggctg | gacaccatt | 480 |
| | tgcagttggg | catcagcttc | ttggtgagct | cctggcgcac | aag | | 523 |

<210> 992
 <211> 379
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|-----|
| <400> 992 | ttttaacagg | cagaaactct | ttaatcaggc | tttttttcca | actctaaaac | aaaatcccat | 60 |
| | tttttcttta | aatttagttc | ctcaggaaca | gagaactttg | caatgatgat | ctcaactctg | 120 |
| | catcatctgg | tgactcctga | ttctgcagga | ctaagacatt | tccaagagt | tctgctgcat | 180 |
| | cagccagtga | ggacaagagt | tcttcagtgc | ggttcagctc | aaggacacct | aggcttcccc | 240 |
| | agcaggggct | tgcttgacag | tctgacaaac | cacagagcgt | tgagcagatg | gcctgggact | 300 |
| | cccagacctg | gcagagggtt | ttattagggc | ccgcctgggc | tgcaccgttt | catccaagta | 360 |
| | ccctgaccca | gcactcatc | | | | | 379 |

<210> 993
 <211> 477
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|------------|------------|------------|------------|-------------|------------|-----|
| <400> 993 | tttttttgat | ttgcaaaaac | acagacattt | taactttaat | aagttataca | agtaaggagt | 60 |
| | caaattttac | attacagaac | aaagatgtat | tgggtgttgt | atcggttaagc | cagaattttg | 120 |
| | tgatttgagt | ccagcacctt | gattcagtat | agtggctacc | tgtcatacag | gagggagtgg | 180 |
| | aatcacaaac | tgcttcatct | gctaagatgt | tgctattgag | caccatgtat | atactcaaaa | 240 |
| | caaacagaaa | aaccttaaaa | tacaaatgaa | agccttatac | atgaaattcc | atgggttttc | 300 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| caaaaggagt | aaatcagaga | gctgggttcc | acaaatctaa | cacgagtctg | cccactaagg | 360 |
| agaagtgact | cagggacact | gttgcagatt | ttctagtgc | gcggaaggtc | tgagtctcat | 420 |
| catgcggtta | gaaactcagc | tagaagacat | ctgtctgcct | cctctgggcg | ccaggag | 477 |

<210> 994
 <211> 327
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|-----|
| <400> 994 | caacatctaa | atagactttt | atattttat | tacttgttt | gacagaaaag | aaaattcatc | 60 |
| | agctttcatt | agagtctcct | taagtnttgg | aaacaantta | aactcagaaa | tagtggacct | 120 |
| | tgtagaaaag | catcacaaat | taaaaatata | tttctccatg | tggtaaaagt | gctttcaatc | 180 |
| | ccattaaagg | gcacagcaag | ggtgtttgga | aacacgatct | gaaatttggc | ctgcaatccg | 240 |
| | tggcatcgat | tccaaccaca | gggcggggga | gtcaccatga | tctagagcac | aggagccacg | 300 |
| | tggggcccgg | agcatgcgga | cagcaac | | | | 327 |

<210> 995
 <211> 327
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|-----------|------------|------------|------------|-------------|------------|------------|-----|
| <400> 995 | tttttttttg | ttttaaacac | tttatttata | aaaaagtaca | tttttaatcc | tcagtacatt | 60 |
| | ttcaacccat | catttttttt | taatacaagt | aaaagggggg | gatgcaaaca | ccccccaggt | 120 |
| | cagaaccagg | aggatctgct | gggctgtccc | tggaccaaaag | gcggaaaggg | cgacaagacg | 180 |
| | ccgaagcaag | gtagcgcac | acgctgggag | gggaggggtg | cagcttctcc | tgggattctt | 240 |
| | ttcatttata | caaaaaagga | aaaccaat | tttcgaccaa | gaatcccat | cctcacagca | 300 |
| | ggggtcagaa | gagcagcagc | accgagt | | | | 327 |

<210> 996
 <211> 443
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|-----------|------------|-------------|-------------|------------|------------|------------|-----|
| <400> 996 | cagatatant | atcaacactg | aggttttacca | gtacaaatac | aatatcttgc | ctcaaaaggc | 60 |
| | cttaaacagt | acggaaatgt | gttatctaaa | ttaattaaag | gttataaagt | caagttggct | 120 |
| | ccagacatgg | nacaatgagg | acatctggac | agatataaaa | gagaactctg | aacccctcat | 180 |
| | atcctcctaa | accttttctaa | gaggcagtc | tctcaaatac | ccaaccaagc | tgctctgcat | 240 |
| | taaacatttc | aatgacttaa | cctgggggga | atggcctcac | acaggtatgc | agcttcttct | 300 |
| | caggcaggcc | accccttttc | actgctctgg | aaccctcccg | gcccaggagt | tctcaggcat | 360 |
| | aggcccctag | gataggcagg | tacaagggtc | tggattttta | ggngataacc | aaggcatttt | 420 |
| | ggttaatttt | cctagggggg | gtt | | | | 443 |

<210> 997
 <211> 446
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 997
attctgcccgg tggagacaga taaaaagcct caggggaagc agctacagac ccgagcggat 60
tacttggtga agctgctcag aaagggctctg gagaagaagg gggctgtgac aggtggggaa 120
gaggccaaat taaagaagcg gaancttcgg gttaaagaagg aaaacaaagt gcccaggctg 180
aaagaggagc atggaattga gctttcatct cctaggcatt cagataatcc atcagaagag 240
ggagaagtga aagatgatgg cttggaaaaa agtccaatga naaaaaaaca gaagaagana 300
gagaacaagg gaaggagggg aggggaaggga gggnaaggga gggaggggna ggaaggagg 360
ggnaagggaag ggaggggaag ggaaggaggg ggaaggcttc ttnccccntt tctttnggcc 420
tccgaggggc cnattttccc nctttt 446

<210> 998
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc.feature
<223> n=a,t,g or c

<400> 998
aaaagataat cttgcctcca ccgtattacc tttacttctt tgtcaagatt cataggccat 60
atTTTTatgt ggatctgctt ctgggctgtc tgctctgtca actgatccat ctgtctgtnc 120
ttttgccaac ctatcttgat gcctgtagct ttatggnaag tctttaaggc aggcagcgctc 180
atttctcttc ctttgtctct gcccttcagt actgtgttgg ctactccagg gnagtctccc 240
tttccatata aacttttagaa tcagtttttc cgtatccaaa aaacaactca ctggggattt 300
ttatgaggga gtgcattgga atccatttat ggaatttggg gaaggaaccg gcattcttga 360
ctatattaag ggctt 375

<210> 999
<211> 481
<212> DNA
<213> Homo sapiens

<220>
<221> misc.feature
<223> n=a,t,g or c

<400> 999
cacaagaatt atgtctttat tggttcatct tagaattaaa tcaacatgga atatgtactt 60
tttgaattaa acaaaatggt ttgataaaaa tgagatacgt gtgtataaaa gctggaaaac 120
tcatgtcccc tgaaacttgg tttccaccag atgagtttca aattcagata ctaaacacac 180
atgaagaaat aatcaaataa attctattca tcctttcccc aaagttttgc ttacaattaa 240
gatataggta ttatttgtat gccgaacaaa caaaataaat tggaagatgt ttggataaac 300
aggggaagtga acacttcagg aactactatt tgcagtttgc aggacaggat aatcttctct 360
aggaagaata atgtcaacat agcagcacta tattcaccag gattccccag agccgatgg 420
ccgatcatgt gggcaggaag ccaaaccctc tgggctgtct cacaatatcc atcagcttnc 480
c 481

<210> 1000
<211> 404
<212> DNA
<213> Homo sapiens

<400> 1000
ttgcataacg aaagagtaac ctagcatgta ttatatTTta cagtgaacca tctaaaatta 60
ccttaatat cgtggcagga acaggcccag acgaaggcaa gccagagcct tctttgactt 120
gtgagccaga attgtgcaaa taaggattag aaaagtattg gtagaaaccc agttttaagt 180
ttgtatgaag ttagcaacat tgtttcaaaa taaatcaaac aaggccaaga gcagtggcac 240

atgcctgtaa tcccagcaact ttgggaggcc ggggcgggtg tatcgcttga ggtcaggagt 300
 ttgggatcag cctggggccaa catgggtgaaa ccccatctcc aactaaaaaa tgcgaggatt 360
 ggctgggcat ggtggcatgc gcctgtggtt ccagctactc ggga 404

<210> 1001
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1001
 aatgtttaat ctttccaatt aaatacttcc attccataaa cttcagaacc aaagttagat 60
 accaacaaga gactgaagat aaatacagtg tcaatagtat caagggacta gcccatataa 120
 tatacttgaa aatcgtatta atcaccaata aagtaccca ccataaacia aatacacant 180
 aaaangtcaa ggatacaatt aaagacaggc caacatatga ggtggaccat tgacaggagn 240
 g 241

<210> 1002
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1002
 tttttttttg tattgtatac acagtggaaa gctggtttta tttgggagac aatgggagct 60
 tttacattgt tgagcaaagg agtgacgaga tcagtcttgc ttttttagaaa gattagtttg 120
 gcagttactt atttgtaacc aganttagac agcaaacgag gatgcagggg gagaagtcag 180
 gtgactatta gtctgagagt aattctggga caagagcagt ggtaatggaa ttnaaaggga 240
 ttaaagtntt taccagggtt tggcataaat 270

<210> 1003
 <211> 253
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1003
 cgngcaaaaag tgtttatttt tctccttcag atatacantc tattggggnt tccgtgccac 60
 tgaccaccat gtacaaggaa gggnttcaca ggcaaggggg acaggtgagg gcagccccc 120
 cttcactcaa ggaacagggc aagggggccc agtacagaga acagaaatct cttacgacag 180
 catcgtgccc tggcaganga ttctgcatan tcacctagaa atttcaattc taactgnttt 240
 gatgaataa tag 253

<210> 1004
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1004
 tttccagggtt gacagggtttt attccacccc cttccatccc catggccacc ccaggcagga 60
 ggagacaggt gtgctggagt ctggtcactt tggggcccg cgtgggcaga gccactggg 120

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tttacattct | ctgtgggcag | gtgtggacac | cagagggctg | gggcaggagg | agcgtgggag | 180 |
| cgagcggncg | acccccgtct | ctggccccgc | ccctgggtaa | acgccgactc | agatgcctga | 240 |
| aacagacctg | ggccgagcaa | ggaagggtga | tggtatttcc | accagacag | aaattcaaa | 299 |

<210> 1005
 <211> 342
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| <400> 1005 | | | | | | |
| ttaaaaaaat | tttttttatt | gaagaacagc | atacataaag | acacaccagt | tttaagtga | 60 |
| caaccatttt | ctcaciaaagt | agacacactt | gagtttccac | caccagggtga | agagataaag | 120 |
| ccttatttagc | acctcaaaaag | atcctcccct | tgtgcccctt | ttcccattac | ccaccctcct | 180 |
| ccccaaagggt | aaccactatc | ctgacaccat | aggttagttt | ttgcctgttt | ttaaacttca | 240 |
| caaaaatgga | atcatacagt | ctgcattcct | taatgtctgg | ctcctttcgc | tcaacatcat | 300 |
| gtttgtgaga | ttcatccagg | ttgcctgtag | cagcagttca | tt | | 342 |

<210> 1006
 <211> 505
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 1006 | | | | | | |
| gtctcaaaaa | caggtattat | ctttattaaa | aaatggatag | atatagcagc | acttacaaaa | 60 |
| caggttcatc | aaaggcattg | tacactgtca | actgataatg | tggagagggc | agccccctgc | 120 |
| ccagctggct | atgggctctg | cacaacgctt | gcccgcgaacc | acctgctcca | cttggtacaa | 180 |
| cggagcccag | aacacctgcg | aggagagcca | cgccaccgtc | gcnctccaca | gcttcaagct | 240 |
| tttgttgttg | tggggagtcc | cttaggggtca | agtagcacct | tccatagcag | catcgggagc | 300 |
| acgcactggg | tgtctgggag | gtggctgggt | gtacttttgac | ccacttttatt | ttaaaaaaaa | 360 |
| cctattaggc | atttcaatta | aaaaacactt | tttgccctgt | tttggtatggc | cattccacag | 420 |
| gaaatacttt | ctgtttgtng | ggaaggaaac | actttttccc | tttcaggata | tcttgttaaa | 480 |
| aggcaaacgg | acggcttccg | ttcgt | | | | 505 |

<210> 1007
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 1007 | | | | | | |
| tgacttttgc | aaagatttaa | tatccacaaa | tgtacaatgc | tcactgggaa | ccaaagtcag | 60 |
| gcatggggct | gggctttaag | gagcaciaaac | aaaaaggagg | gactagaaaa | cttcagaaag | 120 |
| gtattgggtg | gggatgttgt | cgggggggaca | ggggacagcg | aggatgtggg | atcccagat | 180 |
| catccaaatc | cctatgtgta | gacatatgtg | tataaaggcc | tttaagagac | tcaggctgat | 240 |
| ggggatatcag | atactcaaga | tgggtgggtgc | cgggctctga | aagacatgct | tcaagtaaga | 300 |
| gggactagaa | aactccgcca | gggaagcaac | agggatcagg | gattccagga | ggatccaggg | 360 |
| gcctggggac | ttgttaaaca | cagattgttg | ggtctcactc | cctagagttt | cntcttcaag | 420 |
| tattctgggg | agcagccctg | tgaatcataa | taccaagtca | gggaggggtg | tccaccatca | 480 |
| aatgttccag | cntgcagtgg | gcccgggaag | | | | 510 |

<210> 1008

<211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1008
 aaataataat aggcctttctg ccccaactaa aggaatttta ggcttctgca acaagtggag 60
 gaggcatttt gaagatggga cacaaagaag tcttctttct ccagatccag aagtcaggcc 120
 ttgtaagaat tcaagccaaa aaaagttcat ccatngggaa aaacggttct tctatcatcc 180
 agcacgtatt tgtgccaaca gagctgaggg acttgagtaa ttcaagaggc taggggttgg 240
 ggggcagatg tgtccagtgg ctcccacagc cccgccgtcc tgaaagtcac gccagttaat 300
 gtgcctcggg gtnngatcag ccctcccgac agatgactac taaggaaatt aatccccagt 360
 taataatgtg gctttggacc aagtaagtca agattatttt tcctacaatt atacaaagat 420
 atgcttttcc agaagggaac ttctggaaaa agaaccaata aactatgct taaaatatta 480
 ttcacatatt taggagaaga aagaacttna aatagcagaa gacctggaat accatgatnc 540
 acggtggcca ccctggggag catgtctttg tgtga 575

<210> 1009
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 1009
 tttcacaat gtcaatttta ttgacactag tgcacaacta aatacaataa ttgcaaagga 60
 agtggaacgt gtcaaacaga aatggtgaca atgagttaga actgcagttg tttcaaggta 120
 ctacactatt atttaaaaaa aaaactcaca aaaagaaaaa tggtatcact acaagtagga 180
 attagaagag agaaatcctg gcagctctgtc tagaggttaa aacatttcat gcatttgtga 240
 gttgctgttg gagagtttgt tttttatttg tccaccgtaa tctggca 287

<210> 1010
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 1010
 gtttctgaga atcagcactg ctagtggaga tgggcgccac tactgctacc ctcaactttac 60
 ctgcgccgtg gacactgaga acatccgccg tgtcttcaac gactgccgtg acatcatcca 120
 gcgcattgcat ctccgccaat acgagctgct ctaagaaggg aacacccaaa ttttaattcag 180
 ccttaagcac aattaattaa gagtgaaacg taattgtaca agcagttggt caccaccat 240
 agggcatgat caacaccgca acctttcctt tttccccag tgattctgaa aaaccctct 300
 tcccttcagc ttgcttagat gttccaaatt tagtaagctt aaggcggcct acagaagaaa 360
 aagaaaaaaa aggccacaaa agttccctcc tcactttcag taaataaaat aaaagc 416

<210> 1011
 <211> 561
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1011
 tattttttat cattttttatt tttcaacat accaatgtat tacctattca caattttaac 60
 cacacaaaat caattttaag gaaaaccccg taacagtgtt aggagtgtt cttttcagta 120
 cctgatatga tactttcgcc cggctaaatg actggccag taccctgact tccagaacct 180
 gtagccgtcc atttctcttc ggctgtcaca gaaaggagtg taaccataag gagcaccatc 240

caaattgaaa tctcttaact ctttcagatc tgttcgtaca atctgatcag catccacaaa 300
 caggaacttg tcaacaacta gtgggaaaag tacatccagg aagaggatct tgtaacccca 360
 gatgatacgc tgttttttcag tttgtttgang aagccaccgg ggccattttgt actggaacaa 420
 gctcatactg ggaaattgta nttcatttgc catgtaaggt ataaactcct taaatgtggg 480
 ggacaagtaa ttcttcaaga accagaattt cacaggagtc ctggnattct tcagcacgga 540
 tagcatcatn atgcgagaan g 561

<210> 1012
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1012
 gaggtcataa agaactttta taattcagag aagaagttca aagtgtattt aaaagttgag 60
 accctgcttt acaatatttt ataattttta aaaaaggcgt ttaaagggtga taggtgactt 120
 aataattttc cactttcaaa atgggtttct agacactggt gttcatgaac caaaaacaaa 180
 caaacaacaa aacaacaaca aaacccaaac actttggcaa gcaaagtatt attagtacat 240
 agcagcttca taacagttta cttttttta ataaagnng 279

<210> 1013
 <211> 423
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1013
 tttttttttt ttttttttca agaatggaat atttgattta ttctaaaatt tgtgaatatt 60
 taaaaatttt caatataaaa agccagagnc ttgggcaggg acaggcccaa agatgtctct 120
 gcctgagaac taagtgatgg ggcaaaccga cttaatagtg gccagagagc aaaggagagt 180
 tataagaaac cgtaaaccag gctagggcag attcaccttc ctagggggcaa gacaaagaag 240
 gaagggggta gacagagcct actaagtaag ctgcttatcc cttctgccac atgggtcaga 300
 ttcaatctaa gaatgtgtat ggtgacacct agtcagagac aggccttggt aggggacata 360
 aaaaacaaat aaggcttcac ccttcctctc aaagagctta catgcaaaga cgaaggacca 420
 ncc 423

<210> 1014
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1014
 tttagtgtaa attggcaaat tttattttaa cctaataaat ccatgtaaga ctggactgta 60
 ctgtctcgat tatggagtct cattataaca gcatccttag gggttacatt gtggcactac 120
 ctaaaaggta aaagtgtctg aataagggtc ctgcaggcaa ttccatcaca aaaccccatg 180
 gaataggatc acctcccacc aatcttttgc taagcactac tctctggtta agagtacaga 240
 agtttcaatg ttttgatttt tttttttcca gggttgcatg atacaaatgg cagcacacaa 300
 aaacaatgtt aaaaaataaa ccaaataaaa ggctgtacac nagaacttta tgtttattgc 360
 aaacaaacna accaaaaaaa aagggaaga gagggaaagg ggaaaatggt cngaagcncc 420

acnttttagg gtaagaattt taaagcntcc ttacantct

459

<210> 1015
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1015
tttacacttt actgagacaa ttttattcac tatggatata tatacatgat caacatttta 60
tcttcattct tcagaagact taattagagt agctttcttc tcatacttat ctctaattct 120
tttaatatatt tccgagagat cttctgacat gcattcntca tattctctat caacttttagc 180
aatctgctcc tcaagatggt tctctacaga cccaacatgt gtagcaacca tctctaacag 240
acgttgcaag ttaatttc 258

<210> 1016
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1016
tttcgtttta ttattttttt aattttttaa ggtgttcttt tcccccttt tccccctccc 60
ggccactccg gtttgtgttt gccacaagac tcataattcc tttagaaagt ggagtcgaat 120
tcataaaaagt gatgggggga gagcgcggag agggaaggct gggagcccag ggagtcttca 180
ctacctacac tgccgctcag ctccaggcgc gagtggaggt cgggtgtgggg agacgcgact 240
cctgcccgga atggctgaca ctctgcgagc cccggcggcc acgcgnggcc ggntcgaact 300
agttggaggg cgcggagggt cccgnggggc ggggtggcct 339

<210> 1017
<211> 407
<212> DNA
<213> Homo sapiens

<400> 1017
ggaaaataac tttattcatg actgtgttta tcacactatc ttatggagaa gagatgatca 60
ataaatattt gctgaataaa tgaatagcag ttacaaaaca cttgattcat atggaattaa 120
tggttggttct caaagtgaaa aattacaaac agcactgata ttcagccagt atacaagtct 180
ggtcacagca gttgtataat actgaaatac cccctgccac tgacctttgg cccccagatg 240
cctccactg ccactgctct cccactggg aaccctgaa gttcccacag gtcataact 300
aaagggctaa tgtcttgac agcagcgagc acccaggacc gagcagccac atggccgggt 360
ctgctggtga aagcatccat tctgactgat caggacctga ggggcct 407

<210> 1018
<211> 151
<212> DNA
<213> Homo sapiens

<400> 1018
ccaataaagc tttatttaca aacacaggct gtgggctgga tttggctgca ggtgtagttt 60
gtgatccttg attcagacag tttagcaagg ctgaaaagaa caccacacc cccttggttac 120
ccacagatgg gtgggactgt gttggccaga g 151

<210> 1019
<211> 422
<212> DNA
<213> Homo sapiens

<400> 1019
 ttttaacagt ttctaaaaca tttttattgt aaaaagttca agaagccatt tacaagccaa 60
 aaagtatcag aattaaataa cacataatth ttatagacac atttttctgt acaaagggct 120
 gatctttata ggaattttta ataaataatc taaaaatcaa tgctactgat tgcaaaatag 180
 gtctctctct cgaccgtctc aaggtgacat gcattctatg cagccaaaag atgaggggtt 240
 tgacatctgt gacgagcccg ggcagtgagt ctctggcgaa gatttctcac tttcttaata 300
 agattctgtc ccgtgggtgtc ccattctact gctcttctat ttaaagaaat ctgtgttgag 360
 ggatccattt cagaagagtc atttaattgt gaggttctag gcaaacagct tgagtcctgt 420
 tc 422

<210> 1020
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 1020
 tttttttttt tttttttttt tttttgacat agatacttat ttatttgcatt atttaaagtt 60
 tacacacatg ctatgactcc aatgttttaa aaaaataagc ccttaacagc tctgagacac 120
 atggcctctt ctgtatccca agcaaattccc taaatggagg tagagcacgt gttcctatth 180
 ttcacactct c 191

<210> 1021
 <211> 377
 <212> DNA
 <213> Homo sapiens

<400> 1021
 aaacattaag attttattac aaaccatgca ttatatattt ctttacactt aaggaataga 60
 tatgaaacaa tcttgagta aaaattagaa ggcaacttgc ttcaagtttg taccaagtca 120
 atcaagcaga aacctgaaga accttgthtt aagatgagag tcattttatac ttggcaggca 180
 ttttcttcca atgaaaaaat aaagtcaatg tgccattatc ttgacactta taaaaatgth 240
 tataaaaaagc atttaggcca ttgattctca cagttggctg aatattggaa tcacctagat 300
 taaaaaaaat actaatccct atacaacatc cccaaaattc agatttaatt agtghtaagth 360
 aggccttggt catatag 377

<210> 1022
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 1022
 acacaagaac ttatgtttat tgcaaacaaa caaacaaaaa aaaaaggaaa gagaggaaaa 60
 gagaaaatgg tcagaagcac aacatataag gttaagaatt taaaagcatc ttacattctg 120
 ccctaattggc agcataatta atagcaacaa acggccgtct tgctgcctgc cgcaccggag 180
 gtattttttgc agacctgacg agcaaatttt gtgaaatatg tagtatgaag gaagaaagct 240
 tggcgggtct tctactgcaga ctttggaactc ccagtgtttc ggactggcat tccctgcatg 300
 gcctggcggg acacgtgact tctaacacga gggctcctctg tagttgggct aggagataac 360
 ttctcttctt ctgactgggt gggcattttc aacctcccaa atttttccca taaagccaac 420
 aaattgcaca tctct 436

<210> 1023
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 1023
 tactgtttca tacatttatt ttattttcat actatttttc tgtatatgag aaagaaaaag 60
 actcaaaaat aaaatgtaca acaagtggaa caagcagtga ttggctgaca cccacgggc 120
 aaggagggt ccagcaggtt tcggagtaga aaggtcatca cagtatgggt cataatggag 180

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| catcatatta | gagtggaatt | cagccaaaca | cagtaatgta | tggatgtaga | cgcatctgaa | 240 |
| agaaggaaaa | taaagattta | tgcaggtaaa | aaaaaatcga | taaagaaatt | ttccccagtg | 300 |
| tcttatgcc | aattggaaag | ctttagtaga | gatttcggag | ctaagaaaaa | ttttaatgcc | 360 |
| aactttgtgt | ttgtaaataa | taaatacact | tgggggggtg | gggaag | | 406 |

<210> 1024
 <211> 293
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| <400> 1024 | | | | | | |
| ataatacaga | accatttgta | atcaaaatca | atgtatacat | gctactcggt | tacaggtgta | 60 |
| tattcagtcg | ctgaacaaat | ctccgtagg | gtcgtgttc | gtgtgctggg | aacacacagg | 120 |
| tcaatgaaga | gcagccagaa | agccccaagc | ttctggaagg | ttccactctc | gtgaatcagc | 180 |
| accgcttgat | catcctgcc | gtgaaggcat | gtgctttccc | ttccagataa | gttaciaaagc | 240 |
| cagagcacgg | aagccaggcc | ctcatctttg | aacattcaga | gactgggtccg | cag | 293 |

<210> 1025
 <211> 300
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1025 | | | | | | |
| ggcctactcc | tctcccttct | caaagacctt | acaggcaagg | ctgaattcta | aaatagcctt | 60 |
| attagttaaa | aacaacactg | gtataactaa | ctcccatttc | tacttgaaaa | aattcctttg | 120 |
| aataatgctt | tttttagatca | aataaaaaaa | tcaagctttt | tataatgatg | ataaggaatt | 180 |
| aattacaatt | tttaaaattc | taatatagtc | catacaaggc | ttatatactt | tgctctaaac | 240 |
| ctagctcacc | tggcttagta | gctacaacat | ttagtagcta | cagtcagaaa | atctaaattc | 300 |

<210> 1026
 <211> 446
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|------------|-----|
| <400> 1026 | | | | | | |
| attgaataaa | taaaaatttt | attggtttgg | tttttaaaac | ctataaacia | tattcttagt | 60 |
| ttgatcactt | aaaacataca | actttatgta | acaaaaatgc | ttaaaggatt | ttgttcactg | 120 |
| agtgttggtt | atttatacct | atacatatga | aaatctgacc | tgtcaaaact | ggttttgcag | 180 |
| tagccagatt | tgagatatat | gtggatttct | aaaagggttaa | cttgctcaaat | tatgagatct | 240 |
| aatacaacac | ccagggtatta | agggaaaaaa | tgatttttgca | accccaagtt | gggacttaac | 300 |
| ataagaaatc | cttatgggtg | tgccaacgtt | aaaaattcta | ttgagcactt | tcatttttca | 360 |
| gaataaaaaca | ggataagcaa | ataactcaca | acagtacctc | atagtcttct | ataaatagct | 420 |
| aagctatact | ttacagctat | aagaac | | | | 446 |

<210> 1027
 <211> 285
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1027 | | | | | | |
| cagtcaccca | agaagtcttt | atthtcccac | ttggttactg | ttctggagct | tgtaccctct | 60 |
| gagctctgag | atgggggttg | ggggacagtg | ccaggaggag | cctgtggggc | tgtgcagttg | 120 |
| cttcctctg | ggctggctct | gaccagggc | aggatcaggc | acttgagagc | ccccaccga | 180 |
| gcctcattgg | catagacagt | cgtgcctctc | acagggtctc | ggggaggtgg | aggtgtgggc | 240 |
| aagtccatcc | ccaaggctgt | aaggaaggag | cagctcctcc | ataag | | 285 |

<210> 1028
 <211> 262
 <212> DNA
 <213> Homo sapiens

<400> 1028
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 agaagtgatg gggttcctggg ttgctaatacc ggaatacgt cacttttcgtg ccttttgtctc 120
 catcagcagt tctgacttca agcagcagaa tagaagccat ctgcaaaagg atcaagacgc 180
 tctggggaaa ttatcatggt ccgcctatgc tttttgtatt catcttccccg gtctgcaatc 240
 tttggaggtc tgtgctcagc aa 262

<210> 1029
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 1029
 cgttctcata ttttatacca ttttctgtgt gtacaggggtg tgcaaattaa gcaatttcaa 60
 taaatattag aaattttatt tgcaaatata aaatgagtaa aatcagctaa taacgcaata 120
 caataaaatc atgtgctaaa cagagctttt tccccatgaa cacttttttac ccttttcctt 180
 gaacatcctg acacttccta aatacaattt atttactga cttgtagaaa taagcaaaag 240
 atgaaatatt aactagctgc aagatactaa atactttagt aataagagct tggagctgtc 300
 aagttgtaat aaattgaaaa taacagaaaa agtgaaatac gctgcaaatt aatgctcaaa 360
 aatgcagcca tctgacttgc aaaatacaca atcctcccag cc 402

<210> 1030
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 1030
 aaagtaataa acttatttta atagtgcaaa atgtaatctg ctttccaacc aatgaaagaa 60
 aaacttgcaa aaaatttatg aaactagtca ataccttgaa caaagaaaaa cacaaataac 120
 taagtaaata ttacaattgt gtactccaaa cccaaaaaag cagagaccgt cattacaagc 180
 caaatctttt ttagagttgg ttgttgacgg ttactaaaat gcgtaaaaca aaatctctac 240
 ttttcagact tacagaaaag aaataactcc aataagaaag ctaacttaag gtttcat 297

<210> 1031
 <211> 233
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1031
 gagtgtgggg tcagtttatt gggcatgcgt cagtcagagg ctgggctggc cagggtcggg 60
 tagggcagca gtttgtctgg accccgagaa acccaactgg aatccagggc ctcatctgnt 120
 tcaaagccaa agtcttcctc aaccttaatc tgcaccgggg ccagctctgg agtcagcgc 180
 tttcctgtctc ggcgtccatc ccgtggnact cgccgcctct tccgccact tgg 233

<210> 1032
 <211> 466
 <212> DNA
 <213> Homo sapiens

<400> 1032
 tttgttagta attgtcttta tttgcatcat gtcttttatt ctcaaattga ttatactttg 60
 cacttctaga tgtccaaaat caacaaaaac actaaaataa tgatagctag atgcttagaa 120
 atgatccaac atgccatagc tcctttgtaa gcagatgacc tgaaatacca ttgccctgtc 180
 cctttgtgtt gccaatcaac ttggccttga gacttactg cattcttaag ccattttatc 240
 tctcctctct tcctccaatg tgggatgaga ctaactaaaa ctaagtcttc cagtgcacatg 300
 ggacaaaactt acatctaaaa tgttgatcat caatactttc agaagaaaaa aaaaactcaa 360

ccaaaaggaa gagaaagaaa cgtagctcag aagagtctga actatataaa gtatgcaaaa 420
 tttatcaggg ccagagagac atgagtatga gatttttgtc acatcc 466

<210> 1033
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 1033
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 gaggcaatag agaacctcaa caaggctggg gagttgggat aggcaggaat ctggaaggca 120
 ggataactct tgagaacctg gagagcgtct gtggtttacg gtcagtctca aggcgatgga 180
 tgggagtcct ggtgtgttta gatttggcat gtttctcgcc ttctagggag gtgccgttaa 240
 gtcagtggcc agagcccaat cccatggcac ctgctcagga ccatgaatga agaccttgc 300
 ctgggggcac caggtctgtg tgaaggagca acaggagcct gtgggcaggc agatgtcttg 360
 ggaggggaga tgtttggagc caagtctaga gaagcttctc act 403

<210> 1034
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 1034
 gcggccgctg gtcaaccgca gcgtgcccag gtcgctctcg ggctgtgttg tcttgatgaa 60
 gtagtgctg tccttgccct cgatggtgaa gtgcaggctc tccaggtaga aggcgttggt 120
 gagcacggcc gccaccttga tgcagtcctc gttggcgatg ttgagcacgt tggctctgcac 180
 gcggccctgg ctgacggcca gcatgacgcc cttgccgatc agcgacttga ccgtggcgaa 240
 ccacagccag gactgcgcac cgcgcccgcg ccgctcacct gcacctcgcc catcttcccc 300
 agcgacagga aggccttggc ttgccgcgcc acttgctgct ggactccgaa gatgggagg 360
 atatcatccc actgctgact cttcacaagt tcgtaagaag gttctgttaa atcaaatttg 420
 ggaacaggga a 431

<210> 1035
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 1035
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 gcccagggcg gacagtgtca cgtttctctc cctccacttt cccctggctt ttgggggtgct 120
 ccagcctctc ccccagccc actcccgccc aaacccaaaa tgcagaggag acttctctct 180
 ctctctctcc cgccaggctt cgggggttcca cggggcccat ccctggcagg ccaggcgtcg 240
 ggtgctggtg ctgctcctc tggggccagc ctggggaggc agcatggcag cagtgcctgt 300
 cagggaccca ggcgggggca aggtcgcttt ctgagctgac aacttcaggt tcca 354

<210> 1036
 <211> 510
 <212> DNA
 <213> Homo sapiens

<400> 1036
 tttgtagttg ctgaaaagaa gtttattgct attttcttat tttattatac aaaactagat 60
 ttgcttaaaa catttcccag tctcttttaa ggaatgctag ttagtgggag gccacagcta 120
 gtaaattacc ctgagtagtg gtttcaagta gtccataact ataaaaatcg ttacggccag 180
 gatatgcccg aacagaacac tccccactgg ggtcctcagc cttggatgtc agctcgcccc 240
 ctcaaggggt ccctacacct ggaagctgat tccactcacc agtctcgagc tgggcgcacg 300
 tggagttgat gtggagttgt agctgactgg ctggtggggg cagcctggcc tcccagtgtg 360
 gagcatgggc accagcctca ctgctgtgtc accctagggc atatgctgcg ggctgttgtg 420

gcattcctgt ggccagccca gaggcaggca ggggctgtct ggggtttgcc atgtgcacca 480
tcacctgggc ttgggggtgag ctggaggagc 510

<210> 1037
<211> 354
<212> DNA
<213> Homo sapiens

<400> 1037
tttttttttt ttttttagag atcataaata cttttaatat cagataaatc attaagaaat 60
tgcattctgt acttgatgac cacacgggaa ctttgctaga gtcaagagaa cttgtcacta 120
gtaattatga agacaccttt acgggtgagcg ttattaaaac cctactagag gttttgggtg 180
ggactcaaga gcaaggggtg gccacctgtg gacgagggtt ccctgttggtt aacagaacac 240
gttggcccacc tcgcaagtat gcagcccaat cagtccccag ggtctcgggtt cccgttgcg 300
ccttccccat ggccactgcy ctcattcatg agcctagggt gatcaggcct ccgg 354

<210> 1038
<211> 418
<212> DNA
<213> Homo sapiens

<400> 1038
gacagtttaa ctctttattc tccttcacag cccagcagac cccaaggcgg gcagaggggtg 60
caggccgtcc ccaggatgct ggtcatgggc cagggtcatc cttgcacctg cggcagtagg 120
ggcagcagcc atgctgaagc accagcaact catagtcctc agaatggaac atctggaagc 180
aggaggggca catggtaatg gaggcgtcag gcagcagtga gcggaagtat tgccacctca 240
gggggtggggg ccatcgcttg atgaggacat cccggcgggt catggagcgc acacacagcc 300
ggctcaccac cactggcacg aaactctgag ccaccttgct caaagctcag cttagctgtg 360
aacgggtcct catctccgat ggagtccttg gtctccacta gccgcagaat ctgggagc 418

<210> 1039
<211> 324
<212> DNA
<213> Homo sapiens

<400> 1039
ttttttttgga tggtcagtgc atttttattga atcagcacag tacaaaaata aataaaaaata 60
agggaccagg gaattaaatt acagccaaac tgagcttcat gactttgtca gattataaac 120
cacacatact cacaaacaca ctacacatac atacaaaatg agacaaatat aaattaatat 180
taacaatacc cacagtttgg tcaaagaata gctacagaag aaattgcaact aaaaaaccaa 240
catacatcac acgtgtgtaa ttagcagttt caaatataca gctatgaata attctgagtg 300
aaaaaaatgg cacattttct tttc 324

<210> 1040
<211> 425
<212> DNA
<213> Homo sapiens

<400> 1040
tttttttttt tttttttttt tttttttttt ttttttccac tgaattcctt tattcagtca 60
acaaacactt ccagagcccc ctctgtactg aggcctcagc ccagcccccag aggaaccctg 120
aggctcaggg agacagctgg acacagacac ttccccagcc ccaggggccag agtggggctg 180
gaggggaagga cagggtctaca gtagtagtg gggtatatga ggggaaggctg caaggatgtg 240
gtagctggag ttttgagaga tggataagag ttttccaagg aggcaaaagt ggcagaaaag 300
ctttgcaggt gaggaggagc agcagaagct taacctgcat gagaatccct ctcaccagtc 360
agaaagttga ccctgcacag ccaaggggta agctctgacc attttgcagg ggacagaact 420
gagac 425

<210> 1041
 <211> 593
 <212> DNA
 <213> Homo sapiens

<400> 1041
 ttttttttta gtgtgactaa ggcttttattt agaaaggacc ttaacagttt cacaaacata 60
 aataaagcct tagtcacact aaattaaaaa aaaaaattcc ttagggatat cttagagtag 120
 taaagtgact tcctcatata aatagtttga aagggtactt aagtttttca cccaaattgt 180
 gatatacaaa aaggttatta ccaagcaacc tacatgtcaa gaaagcccca gttaggaagg 240
 agccacagca tttatcttgt ttataatttc tttggtactc ccaactgttta gagcacaggt 300
 tgaacaccat gttcatctaa gccttattag ttaaaaaatg tgttatggca aggcaaataa 360
 actagtttaa aaaacattaa atttcacat ttgtagaaat tcaagtttta taatagcttg 420
 ctatagcagc tatagataaa ttagtcacct tattacaaac taaacctttg taaacaagtt 480
 taaatttaaat tttcaagaac caaattgcac tagtcaagag tgtaggaatt ttgagaatct 540
 caacactaga gtcaaagtac tgtatcactt agtataccct ttaaggtagc act 593

<210> 1042
 <211> 267
 <212> DNA
 <213> Homo sapiens

<400> 1042
 gaaagaatag gtttaattta ttagttgctc tttagcaaag gctatataga acattattgg 60
 ggtgaaaatt aaattctagt tacagattca tgaaacttga agccaaatta gttttatgag 120
 actatcaact cccctttcat cctcctacac agcaaggtag ctcatagtct atataattct 180
 ttgccgtttt taaatgattt aagcagacat aatacataat gcagttgata ttaaatatct 240
 tgaggaatgt caatagaact actttca 267

<210> 1043
 <211> 239
 <212> DNA
 <213> Homo sapiens

<400> 1043
 gatccaagcc cttgttcaga tttggtgcct gataagacag gggtttctct ttttgtgacc 60
 tttattatta ttattttgtt aactgttgta accagtttagc tgttgtgttt taagatagaa 120
 aggaacaaga ctaaaattgt aaatactttg taaacatcag catttgtact tgaatagtag 180
 gattttaaag ggcattgata gcataccaaa caaaaggcaa aataaagtga cttttttat 239

<210> 1044
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1044
 gatcctcctc agaaactacc ggacttgttt tctgtattgg tgtgttttgt atcttgcttg 60
 aacttcctgt tcttcttggt atactttaac attatnatna tgtgggattc caaaagtgga 120
 agaaatcaga agaaatcag ctagctgtat tcctaaacaa attgtttcct aaacaaatgt 180
 gaaaatgtga acagtgtga aaggttttgt gaactttttg ctatgtataa ntgaaattac 240
 cattttgaga accatggaac cacaggaaag gaaatggtga aaagtcattg ttgtctacac 300
 aaaataaatg tatatggaga ccaaagacca aa 332

<210> 1045
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 1045
aaccatttgc tcagtagaag tttaatggag aaatcggtgt ttaaaacaat cagtcaaaaa 60
gaacagctct ttacaaaca agttatggca gtggcaagtc aaaaccccag gttcaatttc 120
ctattccttt caccyscccc tagaaggggc aagagsgcgg gtgagcagga gagatggggc 180
tattgaaatg gtagctagag gaattacaaa aatacactct gabgtagcaa cagggttggtg 240
gtgaaacatg ccagggggct ggggrggmmc aatcagacgg gaggttctgg vggmaaacgr 300
agcct 305

<210> 1046
<211> 293
<212> DNA
<213> Homo sapiens

<400> 1046
ggacttcatt ttttttaata gatatagata tagatttata tttatatata aaatagtttt 60
ttacaaaaaa atcaaccaa caaaaaatta aaatcaactt aaaaaaaca caaccaaaca 120
acaataacaa aattcaaaca ggagcagaga tggggctgag gcatagggga ggcccctagc 180
gctgccctga ggaggagggg gtgagaggct gaggcactca gtctcccttc tgcttggtg 240
cttgacagt cccattggcc agagcagtgg ggttgctg ggtgaggca ttt 293

<210> 1047
<211> 286
<212> DNA
<213> Homo sapiens

<400> 1047
ttttttttt aacttttatt aatctttatt ttaaaacata accagatgca ccttggtttt 60
ttacattctc tggttgccat tcagtctcaa agtaaaccacc gggagcatat gataaatcgt 120
agtttaagga agccatagca cttacagagt tctctgaatg gttacaatat aaaatctgtc 180
ataaaaatca gtaaaagatg caaggtagaa cacagtttaa cactggtaca atggcagtag 240
cagctttgca aatgtttgtc tatatgattc cacaggactt tttttt 286

<210> 1048
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1048
tttttttttg gtttgaaaca ttttattggc aacactgatg tcatatttag gaaccataga 60
cttttgtcag actgtgttag cttcagtgag aagtattagt ggtcaatgat atttgaaata 120
ttgttaaagt acccagaaat aataggcatt aaaattcatt tcgttcactg caagaaacct 180
ctaaagattt catgtcttca gtgggaactg ggcatactgt aattgctatg tgggaactta 240
atataacctc aacagcaggc agagagaata cagtcctctc attatgcaca tgctctaggg 300
atcatttatt ttaatgcttt caaataaata cgttccatgc agcacactac aataaataag 360
gggncagcaa tgttcttcta ggtaaatcca ttcataatgt gaggtcacca tgtcaaaaca 420
cc 422

<210> 1049
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1049
ntgantggaa ggagtaaaac tctttattca tagaacacat gactgttgat gtaatttaca 60

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aaaacaccat gagaactcac agtttagcaa ggctgaagga tacaagttca acatcaattg 120
tattttctatt tactagcaac aagtgggttag aatttgaaat tttaaataac catttagcat 180
caaaactatg aaatgctgac atggtagacc tgtacactga aaactacaaa agattattaa 240
gagaaataga agacaaaaca ttaataccta ggnagacag accttgttta tagggccaga 300
aggacttcaa tattattaag gntgggtcaat tctcccaaca gttttattat aaattccaat 360
ggcaattctc aattcagggg gccccacggg ggttttttgg tggtggtggt tgtag 415

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<210> 1050
<211> 371
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<223> n=a,t,g or c

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<400> 1050
gnaaacattt attttcaaaa agattgaaca ctaagctatc aaattctgct ctacagaaat 60
gcatatggga taatcttatt cttaccatc ttgttacaaa taaatnctaa acatttncta 120
aagatattca aactgagtta ctacagacga gtgcctatca agtgaagact ctgtatagag 180
gaagtcaggg anttagggct gggcacggtg ggctcatgac tgtaatccca ggcgttttgg 240
ggaggggatcg cttgaggccc aaaagggttc agaccggccg gggggcaaca cagtgagggc 300
cccatggcct ctattaaaaa aaaaantaat tcgggggnnt ccccttaca atngggggcc 360
ccgnaatta c 371

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<210> 1051
<211> 357
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<223> n=a,t,g or c

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<400> 1051
ggtcacaata tgcatttatt aatgaatgta tttatacaca atacaaacgt gcggggacac 60
cgtccctttc acagcccaga acccagggtc agaagatgag ggatccagcc tcagagggga 120
gatatgcgac ttcccaagag cagttcttgg cctgggaggg gccatgagag tgcaagacac 180
ggggccgtgg cgngggcggg gctacgggag cggggcgtgg ccggcccctg aggttactat 240
aggggaatgg gccccggcag gtcccccttt ctttggggca nttgggaaga cagcggggcc 300
cacggccagn agctncttac acgtgggcgt tttntgcctt atttttnccc aaagntg 357

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<210> 1052
<211> 383
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<223> n=a,t,g or c

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<400> 1052
nntttaaaat tattaaggat aattttatta tcaggatatt atcaggataa tgatagcaga 60
aactaaacg aaacacaagc tagggccata tgtgactgca ggggtcacat gccacaaaac 120
agctttgaac tcatccccct ctgggccttt ctcaatcctg cccaccttca aaatcaagtg 180
aaaggcttct gctgggtgga tgaggaagtg tccatggctc tgagcctctg gtctggctct 240
gccccaggat gggccaaagt ggctccctca taggcacttt gtaggacttc cctggaggaa 300
tggcctttta tctcctatta gtttataagt ttccctaagga gaaaggggct acaactntca 360
ttcatcctgg gaatcaccac atg 383

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<210> 1053
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1053
 ccatcttttta aaaaatgctt tatttctctg ggcaggcttc atcggaatca caattttcat 60
 tcatttagta actgttggcc ttgtatccac ccctctctgg cactcagggtc tcacttaaga 120
 gctggctgtc tgagctgtga tttgcgatca gtgagatcgg agacagaggc agccctagnc 180
 agtcatgttt tgttccacct gaccctgggc gccactcccc ctcccagggt acaggcaggc 240
 atgggcacca gccangggag agacagctca tccatactct ggcccagcag aaactctggg 300
 cttagacaaa actgctcaat tgaggacaaa ctggggcaaag tagaatcttt ctttggggagt 360
 ttttagaaat atggtggggg ggcatttggg aataataaga atagtagctg ggcattgggtg 420
 tacgcgcctg tagaccccca gctctgggag gctgang 457

<210> 1054
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 1054
 cacaaatcta gtttttatatt agaagataag attcagatag cccatataaa aactgctgtt 60
 agataaagct ttcaaagtac atgaataatg agtttgtaat gcaaataatt attttcattt 120
 cccagtgcct gtcagatata acaataaat gtattgggta gcaaatacaa atgtgaatac 180
 cataacttat actcaaatat gattatgatc ccagagcaag gaggttcagt gcataaacca 240
 gccaacgatt atgctcacia aatcaacagc aatatgtaat cagatggacc caggtctcaa 300
 tcatctctgc tcatgggaaa caaggtaaca caccatagg taccctccag tcttttataa 360
 atcagtagtt ccctctctc tcttatccaa agcctttcac cagagtgtgt gggaaaggac 420
 aggatggact aactgggaag ccctc 445

<210> 1055
 <211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1055
 gccagtcaga aaatgtttat tgagctcctc accctgctcc ccatcctggg cccatctgag 60
 gaatattgag caccacaca gagggaccaa caaagaaaag gaacctggtg gggttccaga 120
 aggaggagac ataagtgga catggtattc atgagaagga aggggcatca ggagcacact 180
 tgggtgagga tctacaggag taacaccaag aaaatgcttt agaagcaggg tctcactatg 240
 ttgccagggt tgggtctcaa ctcgtggcct caagcgatct gccagcctct gcctcctgaa 300
 ctgctgggat tacaagtatg agccaccaca accagccccg tgtttcatga gctgttactc 360
 cattccagga gcctatcact tggggccccct ctggattctt gaccaagggtg tccacctcct 420
 tcatgaaccg gagacacagc tcctcttccc atggcaaagc aatgcactnc acagtcanca 480
 gaantccgac ngattc 496

<210> 1056
 <211> 390
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1056
 gtttttgcta ttttggggcc atttgcaatt tattattaat tttaggatca atttgtcaat 60
 ttcaacaaaa acattgtaaa ttgaaaggg attacattgc atccgtagac caatttgtgg 120
 agtactgccca tcttaacaat attatacttt ccaatccatg aacgtggaat gtcttaccat 180
 ttattttagat catctttaat tttttttttc accaaagttt tagttctttt gcttgtttcg 240
 agacagggtc tcaactctatt gcccaggctg gagtggaatg gcaggaacac agctcactgc 300
 agccttagtc tccctgggct caagtgatcc ctccccacca cagcctccca agtaactngg 360
 gaccacaaag gaagcttgnc aacgggggnc 390

<210> 1057
 <211> 462
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1057
 tacagaatga aagaatgttg catataattc cattttaata cagaatttat aaataaaaatc 60
 atagtttata cttatagcat ttcttcattt ttagtgtttt tttttcaagt gggttaaaca 120
 gatctgtgag taccttgaga gttgtcatgt agaataagat cgctaagagg gcagagtttg 180
 ggattcccta tgtaacttca gctacaacag ccttgcttta tccattgtat tcattcagca 240
 acaaataagg atttgtgggc caagtcttgc tttagccgat gtaatatgtc tatgtgatat 300
 aaacattttt ttgaaaaata aataaagaaa aagttcaatt aacttaaaaa agagcttaag 360
 aaaagctttg aactggatga aaggtctttc atcagcagaa gagagagaat aaaaggggcn 420
 ggggggggagg ttcngaaaat tttccaatta gggatttccc tt 462

<210> 1058
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 1058
 taaagactga attcttttatt tggaatgaaa tattcttgtc ttacacagta gataataaaa 60
 aggaataacg tatacacatt attaatacata aatgaaaaga gaaaaccagt gcaaaatgcg 120
 gcagacagta catctctaac atattgcaaa ggctgatacc gggacaacac tacttcagaa 180
 aggtgccagc aaaatgggtga atgtgtgaaa acaaagaaaa atattgtgtt tatagggtgc 240
 agaaagtttc ccagaaactg acagagccca tgcactctctg caccagaat acacttagag 300
 aataatttta accatgacaa taggggacta cagaaaatgg tatattgtgt ataaacctgg 360
 cctctctaata cgctcctta tgtgcttggg acatcttgac gttgttcatg ttcgactggc 420
 caat 424

<210> 1059
 <211> 560
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1059
 aaagttcata gagagtttat tagccataag agctgtttat ttccatactc atgaatctta 60
 aactgcaatt ctctctctat tcaacccaat cctggtagaa tcatgttttt cttcctgaag 120
 gacttgtatg tactggacca gtaagaacct ttgcctgttg tctgtagaga atagtcgatg 180

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| atgtttcatg | ttcctgaaga | tgaaaatggt | catcattttt | aggaattata | gttaaactctg | 240 |
| gcaagtgctt | cttgcttttt | tctttttctt | gtacctaaac | attttttgaa | tcataccaaa | 300 |
| ttctcagttt | ctttgtttca | ataagcaaaa | atggaaacaa | aataacttaa | aataccactt | 360 |
| tgcaggnttt | gttaagtaat | ccttcataaa | ttgcaagcct | tcngagggga | gggcccttcc | 420 |
| cnaatttggg | cccagcacct | aacatagngt | gggtggcccc | attgcaggag | cnccattaat | 480 |
| ccttggccga | ataaaaattaa | taagccatgg | acnccgggaa | gaccncagag | ccnggacnaa | 540 |
| gtgggaagcn | gaccaaatat | | | | | 560 |

<210> 1060
 <211> 428
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> | 1060 | | | | | |
| gcaagcaaaa | tattttattg | aaaattcaga | aaagttacaa | cactttaaga | cagcgttttt | 60 |
| catattctgt | tataaagaaa | aatgttaaaa | gaattgactt | gaatgttata | tttaggtttc | 120 |
| attcaaacta | acaaaatcat | tttgaaaaac | aaaaatccac | ccacagctga | atztatctag | 180 |
| gggtgaaaca | tatatatttc | tatttgttat | caagaaaacg | ctaataaagt | attttttagtg | 240 |
| ttcttttcaa | aacagcatct | ttctggaccc | aatttaaata | gtaatttacg | tattagtatc | 300 |
| tagttcacat | agattactga | tttgtgtgtg | tgtctgcata | tacttgtgca | cgcatgcatg | 360 |
| taggaactag | ctaattttta | tatgaaattt | taagaatcna | gagtgatttg | cnatttcact | 420 |
| tatcatag | | | | | | 428 |

<210> 1061
 <211> 428
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> | 1061 | | | | | |
| tcactgtaca | tagaatttat | ttgtttgcct | catacattaa | aaaatcggaa | tagtgcaatt | 60 |
| acctacaaat | aatttcaatc | ttctcattcg | cgagttgcaa | agtttaaaga | gaaactttta | 120 |
| attgctttgg | gtttacgttt | ttaaagacac | actcagattt | actaagagag | catatcagaa | 180 |
| accagatcta | aatgtttaag | gcataaaact | taattatcag | gtctacttct | tctgccccctc | 240 |
| taatgccagt | tctgcagatc | gctcacacca | ctccaaccta | cagctaaaga | atgaagtaaa | 300 |
| acaggtacac | actaaatttg | ggcatttaac | tgctgaaaga | agtgttagaa | tttttttaggg | 360 |
| tgaaaaagtt | atctgtatca | attatcttac | acaattccac | tccttccttc | aagaaaagga | 420 |
| atccaatg | | | | | | 428 |

<210> 1062
 <211> 418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> | 1062 | | | | | |
| aacctagaca | aaaagaagaa | ccaagtataa | taaaaaaaat | caagaaacat | gacaataatg | 60 |
| gagactaaat | ccctcgatgg | aaagaattat | aatcataaat | gtaagcctta | aagagttaac | 120 |
| tttagatgta | gacaagtcaa | actgaagcac | taaaaacatg | ttcgacctta | tataacacat | 180 |
| tccttagggg | gaaaaaaaga | ttttttaata | ttggaaaaaa | tatgggttagg | catagtggct | 240 |
| catgcctgta | atcccagcac | attcagaggc | caaggcggga | ggactgcttg | agcttaggag | 300 |

ttcaagacca gcttgggcaa catagtgaga ccttgtctct acttaaaaac ctaaaaagat 360
tagctgagta tgggtggcat gcacctatag tccccggcta ctanggggaag ctgagggc 418

<210> 1063
<211> 371
<212> DNA
<213> Homo sapiens

<400> 1063
gcatatataa ataacattta ttaacttagg ctgtacaata tattgattta gtcaaataaa 60
aaataccgta cacaaaaatt gaagtaaaat ctgtaagatg ccattcagac tgaattttat 120
attctgaata agacaaggga ctgccattca cttaaagcaa aatggctcca attccgttta 180
tctatctatc tatctatcta tctatctatc catctatcta tctatctatc tataagtctc 240
gctctgtcac ccaggctgga gtatctatct atttatttat gagataagtc tcgctctgtc 300
accaggctg gagtgcggtg gtgcaatctc cggctcactg caacctctgg cctcccacgt 360
tcaagtggat g 371

<210> 1064
<211> 382
<212> DNA
<213> Homo sapiens

<400> 1064
tttttttttt ttctaataaa ctgtcttatt tttattttca tgtttccttc ttttcccagc 60
attgcagttt tcatgaactc tgctttttta aagttacttt tagacaatga cagtaatcta 120
ggaccagaa tggactggac cagctgatac agaatgcacg atgttggtga atgcttaata 180
tctgaaggca ctgtatgtgt cttgccctgt gttctctgaa ataatgtttg aaatttaatt 240
tgggatgatt tgtttttgat tctttcaggt atgggcacaa atgccgaaat gcaactgcaat 300
acacattgtt tatgcctaaa aacaaccgga acataggaaa tgatggtaaa aggtggggaca 360
ctgtgctgct gtaatgcccc gg 382

<210> 1065
<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1065
aaanncanct ttttattgaa cacattataa aacaggttta gtaaaaagac caaagcccat 60
gtcatcatca gactcncag attcttcttt ctttgcttcc attttcttct cctcagctga 120
agcagcagca atggaggggg caggacctcc tgctggtgca gcaccagctg ctagagcagg 180
gtccaccagc cctacattg cagatgaggc ttccaatgtt gangttggcc agggnccttc 240
caaanaagcc aggncaaaag gttcaacatt tacantgggc tgctttaatg agggatttga 300
tattaacctc catgatgatc acctcgatc cgtgcagant gagggccaag taggacacag 360
ggcaagctcg gagatgggag ggccatggcg ccggggcnag tttgggggct tgacatttgc 420
cagaggtggt ngttantcac tgggatggaa gttgatgggn cttaccccan tgtttt 476

<210> 1066
<211> 433
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1066
aaaaaggttt taaatgttta ataactcctg gagagataaa atgccaacgt ttaggtatat 60

ttatgaatta gaagcttcca aattgatatg gagtaaagca gtgtcagatt tttaaagtaa 120
 gggttgaaac ttggtttgcc aaagctttca gggtgaaatc aagacaatca agtacttta 180
 gtcaccacat ccatacctaa aacatgctgg cctgacccaa gcttgaggtc ctgagactga 240
 acaggtgcac cgctgggatg ctttcaagct ccgggacgga accgcctagg ctgagtgtc 300
 cggggaggga atgccgctgn cccacataga cttgggtgggt acttaatcca aaggnaatta 360
 aggcattttc cagtccaggc gctttttaaa atggcacctt tttgggcacn ggggnggatt 420
 tttcccnnaa aag 433

<210> 1067
 <211> 328
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1067
 tgagccaaaa tatatatact taatttttagt tatgccagaa gtaagtataa tttctcagtc 60
 caaggatggt aggaagcaac ttacagagca tgcttcaaag agantttctt tggcctttga 120
 aggttaactat tttcaaactt aatagtagag tcaagcaaga ntggacaatt agagtttnca 180
 aanttgaaaa ntattatgta ttttatataa tcattaccta tggtttacag attttatttt 240
 tatgatacat atctctaagg taggtgggta cactgaggac ataggcaant atgccaataa 300
 atacttattt aagctggaag tganctaa 328

<210> 1068
 <211> 178
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1068
 tttttttcac aacatgggtt ttgtttaaca gcagcttaaa aaggaacaaa aaggaaacct 60
 ctcatgcaga cacatcaggt ggcatataaac aataggcaat tccacgcgga natcanttag 120
 ccattctctc tgtccgcaca caggactctg gctgcacctc aggggcagag ctgctttc 178

<210> 1069
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 1069
 ttggctttca atgcttcac agcttttgca gcagcttcaa gaaccagctg tagtctggct 60
 ttggctgttc agctgggtggc agatgttcta atccagcttt gatgtttcca gattccccac 120
 gtttgatggt atgtaattcc ttgtccttcc ctttatcctt ctctttttct cttttctctt 180
 tatctctgcc cttacgtcgt tctctatccc gagaccgact acgcgttctt ctgtgactgg 240
 acctttcact gctacgacta tgagaacgga gacgaggtct tgacctggac cttcttggtc 300
 tgctttttga cctagacctc tgaactctat aggatttccc tccgacctt ttgaacgact 360
 tcgacttcgt ttccttctgg agccataaga agagctactg cttgatcgat gcctgcgtct 420
 tctatcataa gaatgtgaac gaggtgaag atctctggac caa 463

<210> 1070
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 1070
 acaaaaacaa ataaggattt ttatttgcag tactttccac tcttccttta aaaacttgcc 60

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| atttgcttat | cagttcctct | ggggctgacc | cactcaaaca | agacaaagga | taaagaacaa | 120 |
| aagatagtcc | tccgagggtta | caggcttgga | agggcagaga | ggagctacga | accttggaag | 180 |
| aaaaacaagg | tgctcaggaa | ttcatcgctt | aacatttcac | ttccccaccc | accccttagt | 240 |
| gctcccactt | tggcagtgat | ctctcttttg | ctttaaagag | aaagggggaa | atgtgccttg | 300 |
| ttttgcaggt | gtgcaacaac | acagctctgg | catctcaagc | agcaggggag | aactctaaga | 360 |
| cagaagaatt | tcttcatgaa | aatcacggta | tgttatcaca | tactgtctcc | atggcccata | 420 |
| caaggac | | | | | | 427 |

<210> 1071
 <211> 454
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> | 1071 | | | | | | |
| caat | ttttaa | aatgtttta | ttacaaagct | tcttttaaaa | aatgctcag | cacattaact | 60 |
| caaactggaa | tgacaaacgt | taggatgaca | gttttgggca | aaggctgtgc | ttgctttttt | | 120 |
| aaaaaatggg | tacatcaatg | ctcatittaa | caactnggca | taaaatccca | ctaattggct | | 180 |
| aataaaaaca | gatacaata | cagaacattt | aaagtaataa | caattcaagt | gctgggcttt | | 240 |
| ttacaacaag | ggggtgataa | ggaaagaaat | gaaaattcac | tgcaaaccag | tctgctgaac | | 300 |
| gcatctgtta | aggtttactg | tttaaaaaaa | aaaaagaaga | aaacagaaga | aaaaataaac | | 360 |
| tgaaattagg | gctgccaatt | gctaccaaca | gagtgggttt | ggctattaca | tttatttagc | | 420 |
| tctactggaa | caccttacia | gggcggagaa | gcca | | | | 454 |

<210> 1072
 <211> 396
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> | 1072 | | | | | |
| ttgcataaat | tggttcagtc | actatttatt | agttttaaaa | aatgggtttt | taaaagctgc | 60 |
| aaaccataca | catttctgaa | tcaggaagag | gtaaactgtg | acatagttcc | cctgtgctgc | 120 |
| tgattctttt | ggggagaaaa | aataagtttc | caaattctat | ttttaaaaaa | actagagggt | 180 |
| ntttttctat | gattagcctt | cactcgaaag | tccctttnac | ccaaggcatg | gtccctgggt | 240 |
| catctttttg | acggcttagt | ttctgggaag | ttttcagtaa | accgctctcg | tgctttgtcc | 300 |
| cagntttttt | tgttcttggt | ttggagaagg | tgaacatctt | caaatcgagg | atggtttncc | 360 |
| tgtccccaag | cctgcatgtg | ttcgccgaag | ctgaag | | | 396 |

<210> 1073
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| <400> | 1073 | | | | | |
| tgattggctt | aatgccaat | gtagtttggt | tctttgtctt | tgtacctggg | tctcttttct | 60 |
| gtttcttttc | taatctttgt | tttaggcctt | ctagttccac | accatcttct | tgagggcttc | 120 |
| cttcagtatt | ttcattctta | atctttcttt | tatttttctt | ttctgcctct | gcttttcattt | 180 |
| ctatggttan | tcgtggaang | actcnttgac | cacgcggaga | aggnaaaaact | tcaggcannt | 240 |

tgnggtgttt ttcccccttg gnccttcccc cctttcccca gggaagnca acttgntca 299

<210> 1074
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1074
tttttttttg ggtgcaagga acattttatt ccataactgt ctccaccgaa gccgcagaag 60
caaagccagg agcagaatcc attctgccag cgctgggctc tggggagaca tctgtgccct 120
caccatggag gacagaaggc aggggctccc gactccttgg tctgtcctgg ggtgctcctg 180
tccctctttc ttgctggggg acctacccca cctccccct cccacctcag ccacagagga 240
acaagggaga caaactgagg gctctgcagt ccccggtcaa ggccaacata atagtcgtgt 300
ggccccagcc cagctaggcg catcctctnc ggcattggcag cggtgaccaa gcacagccaa 360
cgtcagctcc gctccctgcc gtctgagagc tg 392

<210> 1075
<211> 417
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1075
ttcccaaagt gctgggattc caggcgtgac acccgcgccc ggcccacagt tttattcttt 60
acaggaggtc agtgcccatc atgttccctg tctacagaca aataaaaagc tgctctctcc 120
agagggggcg canagtcctg atgggtccagt gagaccacaga agcttccagg agaccttcag 180
tcccaggtcc ctttcagtca tcattctctg agtctgactc ttctgtggac tcagatgcgc 240
tctctggcaa gtcgtctccc atctgctgga accttcccga ctgtgaatcc cacatgtatt 300
tgatggtcac cttgaattca gccatctcat acccaaaaag cttcaggacg cgagcctgct 360
ctgggggtcag cacatcgccc tccttgacaca cctcgtaagt cagacagcag aagtcac 417

<210> 1076
<211> 410
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1076
ttgagtgaat gaatgaaaat tattttatatt ttatttgagc tttggttctg ccatttgcta 60
gcagtgtgac tcaagagaag ccagtaaccc ccctgagctt ccctagttca caaaatgctt 120
gtcatgaagt cgacagcttc cggagctgag aggcctcnaag aaatgccac atgaatgtgc 180
gcttagggcg tgagtgtca ctccagaaaa ctccaacaca gtgaaaatgg cagaagcggg 240
gtttttcttt ttacatattt tataagaata tataaaaaat gatataaatg gacatttacg 300
gtagtggggg aaggcatata tctacgttaa aaggcaggac atttttaaaa gctctatttt 360
ctaaatgaaa actacgaaag cgggggtgggt tgtggcgggg gcagttgtgg 410

<210> 1077
<211> 279
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

099544560 9544560 099544560

<223> n=a,t,g or c

<400> 1077
 ttaatanagt actgccttna atttttaatg catatatgtt acagatttgg ttctccaaga 60
 aacactgagg tgcagtttag caggggggtct atgaaggcac acccttcgat caanacctga 120
 gaaagggaac angantgagn cagaggtnta agttgagttg caatgcagat ccaaagacag 180
 tgtccctaaa ccccataggg agattgtggt gggcccagca gaggttgcca ccactcacgt 240
 gctgaagtgg ccaggccttt ctattctcac ctccaacag 279

<210> 1078
 <211> 356
 <212> DNA
 <213> Homo sapiens

<400> 1078
 ggaatctctt ttgtcatctc tgtgccgctt atcatctttg tcttctttat gtttcttctc 60
 ttctacctct cccctacttc tctgttcctt ggacctttct cttgatcgct ctctctcttt 120
 ttctcgttca tttcctcttt ccttatcata gtcacgatct cgtcttctac ctctctcatt 180
 ttctttctct ctttctcgat ccctgtccct tctatccctt ttcctatcac gacttcgact 240
 ggcacttcta tgcctttccc tacttctgct gcgcctgcgt tctaaccccc ggtcaatact 300
 tcgggatctt cgccgttctt tctcccttct tttggcttca cgctctagtc gctggg 356

<210> 1079
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 1079
 cacaaatgtc aaatgttaat tttatccaaa aacaccccca cagacacact cagcacacac 60
 agtgtcacta cttactctca gattgtctct cagactgggg gaaccaattg acaaggcccc 120
 cagctcccc agctatgaga ctacattccc cataactttt cagcatgttc acttgattct 180
 ccaaccttaa cagacttgtg atattacttt aatggcaaac aaggctctgc tgtcccacgc 240
 gcttactttg ccacatggca cagtatctgt gtcacagacg cactcttcac aaggacaggt 300
 ccaggcctgt gtcagtcact gcttcatccc agcacctagc acagggcctg actcatgggtg 360
 agctgtggac aaacgcacat gcaattaacg acttgttcct gcctcag 407

<210> 1080
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 1080
 agagattttc agaaataatt ttatttacag aaaattcaca gaggattaat aaaatgtcat 60
 gaatacaatt ttgttggtta taatttagcag aatcaagagt agattaatat ataaggtaac 120
 atgatataatt aataatacaa actaaaatat caattttatg ctagctttat ccattagttt 180
 ttcatattcc aatttttaac aaatctagaa ataagacagt atatatgaaa caaatttgct 240
 aaatattttt aaattatgcc acctcagata ttacctcaat tttaaaacca tctgtaaatt 300
 aaatgacctt cccattataa tttctaaata taaagaagca ccagctggaa ctcaaaatgc 360
 ataaaagata ttgttatata ttttaagaaa atattatatt agcaatatc 409

<210> 1081
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 1081
 ccgtgtcact tctcacttct aaatagctct agacttggtc ccattgcact aacttaattc 60
 actctccatc atcttttggt tggagtacaa ctccgtcctt ccatctaate tgccgtgtctc 120
 caatcgttct cccctttgat gtgcagggca gccactgac tctctaacaat ttacagaaga 180

095445 091601

atgcaccact tgggttggtt aaaacccttc aatggcttcc cattgcccc aagttcaaact 240
 ctgcaatgtg gcctacacat ctctctagct tcacctctg ctcaatatcc tacagcacag 300
 tgaagttctt ggtggctctc aaaagggtcc tcaaacttca aacattccct tcaacctaaa 360
 atcctcaatg gacattactg agtc 384

<210> 1082
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1082
 gttatttagt ttttatttca taatcataaa cttaactctg cactgctaatt ctctggggg 60
 gagaaagggg cctatattgt acagacaatg gctgggaccc ctgacattct ggcactttct 120
 ttcacatggn tacaccatcc tccctcctcc ttcacagggc agagggatcc caagtttct 180
 ctatcctctg ctagtttttg atgttccctt tatttagaaa aacaggcaac tatctgcatt 240
 gtcaaacaca 250

<210> 1083
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 1083
 tttcgtgtga ataaacgatt ttcctttatg tggaatggtt cagagaacgt gggcgtgtgc 60
 acacaagtgc cctgttccgg agactggtgg gtgggggttc tagcaggctc ctctcctgcg 120
 cagggggtct ggggctgcgg cctcactgac tgccttggtt cctcctctgt gcgctggtcc 180
 tctgctgctc tttatggaaa atgtttcctg aagatcttcc aatattttga aggatttgg 240
 ccagaatgga tagattttca tactgagtgt tctttgaatt cttttcttta ctggaaacac 300
 tcttctcact gccaggagac acctgtggcc cagcataatt ctgagaagga tcgccatgga 360
 gatttgcatt agcattggct tcatcattgg aaattttgac ctcaatgcca ggaga 415

<210> 1084
 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 1084
 cagggaaaca gacaggatgg aaaaagacaa ctgaatgccc tcaactgaat gtcttcatcc 60
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 ggaggggtgac aggggtgagg agggacttgt gagagctaga acttggcaaa atggcctagc 180
 ccacccttca aaggggaaaa gagggaggaa caggggatga aaagttgtcc 230

<210> 1085
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 1085
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 tggagcagca ttaataggca ccaatactac gaactagaat ttagagcctt gccactggcc 180
 agcgctgggg tcagtcggga gcatgccagc aaggctgacc ctgagtttca ctgaggccgg 240
 agtcataagc agcactttta agatccctgg gtaatttgga tgcattttga gatgtgagcc 300
 gcatagattt aaggtacttt agcattctgc agctttcact tattgattgt atgattccca 360
 ccgtctgacc ccagcagtct tcac 384

<210> 1086
<211> 348
<212> DNA
<213> Homo sapiens

<400> 1086
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atatcatgtt aatagcctag taatacaatt ttattaaagt cagtataagt tgaaaagtgtt 120
atcagtgtta ataagaatga aaaatatgta caatatgcaa ttactattaa atacaatttg 180
cccatagttg cacattgaat tcattatcac ggcagttaaa tatcagagct tctggtttct 240
cactcttcat tcatgtattc agcaaccatg tgctaaggta ctaggacaag cactggaatt 300
accagataaa gatgatatgg tccaccctc aacaactgtt tgctataa 348

<210> 1087
<211> 359
<212> DNA
<213> Homo sapiens

<400> 1087
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ctggggccat tcagccaggg acagagccca cagagcccat acacctgtct cccaccagcg 180
gggccctcct ggcagggtag ggaaggagga ccccgggcac cccctcagg gcctgactca 240
cgtactgtag tttgcactgg acgcccgggc cctccctgtc ccaaagcccc cttgtgagac 300
tcgtggctgc tgggggcca taaagctgtg taacttgatc gtgggtgtgg ctgggcgca 359

<210> 1088
<211> 494
<212> DNA
<213> Homo sapiens

<400> 1088
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atttaactca cctgtcttgt tggcatcacc tctccttaac cctaacttct tgcaaaccct 180
ttaaagcatg gacttgggaa atgtcagtga ccacctgcct tctctgacca ggtaaaaaag 240
gctagccaat gcttgtgtaa aaaaaagaac accacatatt gttgtattat atgcaattgg 300
aaatgttcag ttatcgact ttgggtatcct tttcagaaaa aaaaaaaaaat ctcaaaactt 360
ataaacataa gcatggcatt ttacattgta ccaactgagt aacagtaa atagatgaggtg 420
tgaccactat aacttcttga ccaactttct atcttgaaac tacacacatc caccctacca 480
gtaccattc taat 494

<210> 1089
<211> 408
<212> DNA
<213> Homo sapiens

<400> 1089
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aactgatgaa ttttcttcag atgatcttta agaattctaa aagccttgaa gtttgctatc 120
ttctactgtc ttattagaag gataaaaaac tttgaatgaa aatccacttc ttggaaaaga 180
gccagggttt atgcagaggc attcgggtatt tgtcgtagtg aaaggatcat atttgtctgc 240
aatgacaagt agatcgggca caggatacac tctcaaagca tagtcatatg cccaatacac 300
tgggcagaca taaagaggta ggggagtcag atgtccttgg gataagatag tctttacaaa 360
gtgattagga atagccaaat tgctgctagg aaaacggagc cagtttct 408

<210> 1090
<211> 174
<212> DNA
<213> Homo sapiens

<400> 1090
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 ttaaagcaag cagctgtata cagacagcaa aagaagcaac attttgttac agcttagcac 120
 aaggcatcca acacaaacag gcatgagaca atgcatatct atgtagcatt aaaa 174

<210> 1091
 <211> 320
 <212> DNA
 <213> Homo sapiens

<400> 1091
 tttttttttt tttcagaaga aaaaaatggt taatttaaatt ccaatgttca aaactggata 60
 gtgtgtatgg caggtgattt gtacatacat gttactcttc atcaaaattg ttttccatcc 120
 ctgtgacatc aatacaaact gcagctatct ggttccaaac catagcaaga tacattctat 180
 tttttaaaat gtaaattggtc attttaaata gaaataattc ttttagacgt actgcatttt 240
 taciaaatgtg attttggaag tatattgctc gcaaagggtg attttaagag aattgttgag 300
 attctaattc catctttatg 320

<210> 1092
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 1092
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 tcaatataaa aaaatcaata ctcaatttaa aacagaaaca gtaatttctg aatgtctaac 120
 attctcctat gcaaagactg ggagaaagag gaagggggag agagaaaata aattctttta 180
 tttaaacctt tcttcacctt gctgggaatg cacatgccag agcaaataaa tccagcttaa 240
 ccccttctgg actggtcatt gaagataggg ttggaagaac agtatttttag aatggtgatg 300
 aacagtgtca ttattaacta tatgtacata cacttatggc acttggaact gcactgtatc 360
 catgacgtag caacctctga cacagccgtg ctacacttg ccatctctta cccattttcc 420
 caaaatattt cctgagaaag atattgtaag gaacttcc 458

<210> 1093
 <211> 313
 <212> DNA
 <213> Homo sapiens

<400> 1093
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 aaaaaacaca gacagtgggt tttccaatag aacttaacaa agaccagaaa caatacaat 120
 aaaaagccag gttgtaatga cctttgggtc actaaataaa aaaaaaata aaaacaaaga 180
 aaaataaaag atcaaattaa gtgcctctgt tttgaacagg gcacataagc aataataaat 240
 agtgactccc atagtaaaag ataaaatttc aagttacgac aaacagcttt cattacagga 300
 atagaaaagg cca 313

<210> 1094
 <211> 335
 <212> DNA
 <213> Homo sapiens

<400> 1094
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 ggtacagaaa agctataaag ataaatgtga cacattcttt accattaata ataatatata 120
 ttatctaaaa tttaatttga gctaataat aactgacaat gaaatatttg gaccacctaa 180
 aacaaggata aattattctg tgacaagttt atattcttgc attatgcaa aatgattcta 240
 aaataaacta tttttttccc agaaattgta tgagctatac attgctatgt aacaaattgc 300
 cccaaattta gcggcgctact acaacaaaca cttct 335

<210> 1095
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 1095
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 atttctttat ctggtgtggg cggctctttt ccagggttcag tcaactggaa agtcagaaaa 120
 gaaaggacat catggtcatc tgcaagacct ccagttgcag cagatattcc aaaatgccct 180
 tgtgcaggga taatcatatt ttccactttg gcacaaaatt cataatcatt tttatctggt 240
 gtaaagccat tattgatcat tactgtcagt gtgttctggt aataggtaat ctttgctcgg 300
 acaggatagg gtttgttgcg gaagtcacctc tggcaacttg ccaaagcttg actagccccg 360
 tcattttgat ggtcataatg gatttgtcca ttgttgccca taattactat agcaggatta 420
 tttttctttc catcattgtc aaaagaatca aaaaatattc caacaccatt cca 473

<210> 1096
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 1096
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 agtcgtactc tttttgctgg tggagggtct tgcttcgagg ttgatgggtg ctgactggtc 120
 aggggtggtg ctgctgaagg ttgggggtggc tgtggcaatt tcctaaaata agacatcggt 180
 gaagcttttc gcatgagttg actcttcctt tcatgaaaga tttctctgta gcatgcgatg 240
 ctgtttgata gcattttgcc cacagtagag cttctttcaa aattggagtc aatcctctca 300
 aaccctgctg ctgctttatc aactaagttt atgtaatat ctaaatcctt tgttgtcatt 360
 tcaacaatgt tcacagcatc ttcaccagggt gtagattcca tctcaagaaa ccactttctt 420
 tgcgcatcca taagaaacaa ctctcatct gttaaagttt 460

<210> 1097
 <211> 251
 <212> DNA
 <213> Homo sapiens

<400> 1097
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 ccccttcttg gtttctctgc attttgtgca acatcacttt gacttgatta ttcttgggtc 120
 tgttttattt cccgctttta ttttgctttt gaaatctttt tccttggtgg atttgtacgt 180
 gtcttcacta gatgcctcaa attaagtctg accacaattc tactctactt tctacagtgg 240
 agagaccatc c 251

<210> 1098
 <211> 354
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1098
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 cctaaaagaa aagaaatgct tgcttggaga tctgagcaag taggtcctgg nagaaataat 120
 ataaaataaa caacttgcca actggtggga agatttggtt tgaatattta aaattaccta 180
 tcaacttaga attgggctta ttaaattatt caatcccaga aatgaccatc agctaaacaa 240
 ggggtcaaagc cagagtaatc tctgagggcc cacttcccag agagctgccc ctttcttca 300
 ggcantaccg ctgggcccgg gggtagggc aatttgnca cgggccctta gggg 354

095445C 091501

<210> 1099
 <211> 321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1099
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 taacctctgc ctttcttttag aattaccttt cctgcggcca gtacatgtc cttgttaatg 180
 actctacatt tactcgcaca agggtttgtc cgggactctn ctgctaatac atgaacaaac 240
 aggtaaacag gttcagatgg gaccantaag gtcaccantt ttttccagga cgaagttgag 300
 ggcttctttc ggnttgaagg a 321

<210> 1100
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1100
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 ctacacccat tatggtcgat tcgggcccc ttgctcactc tgctgcagca tcctagaggc 180
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 ctnttcccca caaagagtat cttgggggag ggnttcgtgg ggcagaacag gagggcaatg 300
 agggatgaac attgctcaaa ctctttcaa aggggcacct gaccgcacag gggaggntgg 360
 gcaggaaggg caaggntgg gggatgccgt ntaaggaggg cggangcagg canttttgg 419

<210> 1101
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 1101
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 tacaggcgtg tcccaccgg ctaatttttg tttttttgt agagacgggg tttcaccatg 180
 ttggctaggc tgggtctgaa ctctgacct cgtgaccgcc ttggcctctc aaagtctggg 240
 attacaggcg tgacacacga gccagcccc tccttaaaac agttttcta cagatccgtt 300
 attttaccca aatgggttga ggggaacaaa accaaccctc atcacctat ttggtgaaaa 360
 taaatataaa aaaagatgat cctctcttaa agggtcacct tccttcaggg gtttgtaaga 420
 ctacgacctt taaaaagctt gaa 443

<210> 1102
 <211> 508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1102
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acagattttg taacactcaa agtgtcctgc attaaaaagc acgtgtctat ttcctacgtg 180
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<210> 1103
<211> 354
<212> DNA
<213> Homo sapiens

<220>
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<223> n=a,t,g or c

<400> 1103
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cgaggcacag cgnctcccca ggcctctccg cggcggtctc tcccttcgct gcggtcttg 120
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agcggcaggg ccacacacac cggagggagg ggggggttggg ggttggtnga aaaggncaag 300
aacagaaccc attttaatta cacttcccga ttaaaaaatt ttttagttcc gagg 354

<210> 1104
<211> 341
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1104
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ctgggggtgag gggagcctgg gaaaggcagc ggggcgnggg gattaggtta ggaggtgggg 180
canttttagag ggaagaagag tgggacaccc ccaggggagt ccaaggaggc ctggcctggn 240
agaagantna gnttaccctc ccacccccca ntggggannn tatgactaag gaagccccca 300
gaagggntga aaggagantt tcccagggaa ntgagnttag a 341

<210> 1105
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1105
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tacagagaaa tttctaccca cacattcggt atcccttggg ggnaatgaca tggaaaacaa 180
acatcttttc tgggtctgta aagtaaaaca atgggggnccc nggggatagg actctcaaga 240
ggggcctttg atgggaatgg gaaccagtcc cccacccccg gaaaggcatc cccccagctc 300
aatatggtca ccnntttaca ccnggcacag cccctcacat tgggggtccc cnggcaccaa 360
cccttttttag ggaaggg 377

<210> 1106
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 1106
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 tctcatctta gtgtgacaga ctctggccaa tatccccttt gaacatctgc tttcgctggt 180
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<210> 1107
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1107
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<210> 1108
 <211> 2474
 <212> DNA
 <213> Homo sapiens

<400> 1108
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 ccagcagcac ccaagactca aacaaactcc agtggtccag caaaaacat cattattcag 660
 acagtaccaa cgcttatgcc attggcaaag cagcaaccaa ttatcagttt acaacctgca 720
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| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------|
| tccgtgacta | aacctgtcct | acaaagtacc | atgagaaatg | tcggttcaga | tattgctgtg | 960 |
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| caactgaaga | aagaaaatgg | aacactgaag | cggcagctgg | atgaagttgt | gtcagagaac | 1140 |
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| tttataatac | tgaactatgg | acctatgagc | atgttggaa | aggattccag | gagaatgaac | 1260 |
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| gttcatagac | atgaagtaga | aaggaccaag | tctagaagaa | tgacaaataa | tcaacagaaa | 1560 |
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| tacacagaaa | ccactagtag | tatcagcagg | aactcagggg | gtgagctaca | agtgtattat | 1680 |
| gcttcaccca | gaagttatca | agactttttt | gaagccatcc | gcagaagggg | agacacattt | 1740 |
| tatgttgtgt | catttcgaag | ggatcacctg | ctgttaccag | ctaccaccca | taacaagacc | 1800 |
| acaagaccaa | aaatgtcaat | tgtgttacca | gcaataaaca | taaatgagaa | tgtgatcaat | 1860 |
| gggcaggact | acgaagtgat | gatgcagatt | gactgtcagg | tgatggacac | caggatcctc | 1920 |
| catatcaaaa | gttcgtcggt | tcctccttac | ctccgagatc | agcagaggaa | tcaaaccaac | 1980 |
| accttctttg | gtccccctcc | cgcagccaca | gaggcaaccc | acgttgtcag | caccatccct | 2040 |
| gagtcattac | aatagcaccc | gcagctatgt | ggaaaactga | gcgtgggacc | cccagactga | 2100 |
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| tagccctgca | tcctccagtg | ttacctgggtg | tagatttttt | tttctgtacc | tttctaaacc | 2340 |
| tctcttcctc | ctgtgatggg | tttgtgttta | aacagtcatc | ttcttttaaa | taatatccac | 2400 |
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<210> 1109
 <211> 617
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| tttttaaagt | ctgcatagta | caatagaggc | aggggtggatc | ttttaatacc | aaacccaaaa | 32160 |
| aaattttttt | tttttgagac | agagtttttc | tcgtggccca | ggctagagtg | caatggcgca | 32220 |
| atcttggctc | actgtatcct | ccgcctccca | ggttcaagca | attctgcctc | agcctcccaa | 32280 |
| gtagctggga | ttacaggcat | gcatacccat | gcctggctaa | atttttttgt | gttttttagta | 32340 |
| gagacaggg | cttgccccgt | tggtcaggct | ggtcccgaac | actgaccgca | gatgatctgc | 32400 |
| ccgcctcggc | ctccaaagt | ctgggattat | aggcgtgaga | ccgcgcctgg | ccgatttttt | 32460 |
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| cggctcgtc | caacctccac | ctcccggtt | caagtgattc | ttctgcttca | gcgtctgaag | 32580 |
| tagctggaat | tacaggcaca | caccaccgag | cccagctaat | ttctaaaatt | atttatttat | 32640 |
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| gggactacag | gcgcgtgcca | ccatgcctgg | ctaatttttt | tgtattttta | gtagagacgg | 32820 |
| ggtttcacta | tggtggccag | actggtctcc | aactcctgac | ctcctgatct | gccacacctca | 32880 |
| gcctcccaaa | gtgctgagat | tacaggcatg | agccaccgca | cccagcaatt | tatttattta | 32940 |
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| attacaggcg | tgcgccacca | cgcttagcta | attttttgta | tttttagtag | agatgggggt | 33120 |
| ttactctatt | ggccagggtg | gtctcaaatg | cctgacctcg | tgatccaccc | gcctcagcct | 33180 |
| cccaagggtc | tgggattaca | ggcgtccaag | ccacgcctgg | cctatgtgat | catagtttct | 33240 |
| attctctgtt | ccaggcaagc | cccaccaggc | ctgctgggtg | aggggtcagga | gcacgaggtg | 33300 |
| gctgaggatg | gcactggcct | ttgctgctgg | gtctcctggc | ctgttcctct | cttccgaatg | 33360 |
| ttgtttggat | ttgctgtctc | ctctctgggt | ttacattaaa | tcagtgagac | tcttggattc | 33420 |
| cctctttgaa | atgaaacgg | gctgggcttg | gttccgaccc | cttcccctgg | tggcaacctg | 33480 |
| agcctgtcac | cacaagcaca | aggtgacagc | ctgtgatgac | aggccatcct | caacccatag | 33540 |
| cggctctggg | ccagagccag | gactttcctc | ccaaaagctg | aggcagaggc | ttcaccctct | 33600 |
| ctaggagagg | aaggccaacg | ccaggggctt | tgaggggtggg | actgtgctct | gttcaactgtc | 33660 |
| atcgctgtgg | cagcgctaata | ttttcacata | cgagggtgtcg | ttagtcacac | acaaaaaagc | 33720 |
| caactgatca | cagaattcta | aacagcacia | ttctgtctgc | agccttgaaa | agcctgggac | 33780 |
| atttagaggt | ctagggaaat | atccaaagat | agcaaaaata | tgtgttggtt | ctaatttttt | 33840 |
| gtttgaagac | agttgttgct | acagaggaga | tggaaagcag | atttagctgt | aaaatttatc | 33900 |
| gatgttccaa | agcaaagaga | ataaattgga | aattgcctca | tcctacaaca | ccaactggaa | 33960 |
| gaatccaacc | tgttattctg | ttagatgtta | gagacacttg | ggaggaggac | ctgggagggg | 34020 |
| ctgtggctgg | gggcaccgcc | cagggccagc | tgggggtggca | ggctgtgcgg | gttgacacaca | 34080 |
| gtagataggc | cctggcctct | gggtccaccc | tctgctctga | gcaccatctg | gcacagagtg | 34140 |
| aggggctcta | caagcatcca | gtagaagtat | tattattatt | attattccaa | gatgaggttt | 34200 |
| cactcttggt | gcccacactg | gagtgcaatg | gcagatctca | gcttactgca | acctctgcct | 34260 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-------|
| cccggttca | agtgattctc | ctgcctcagc | ctcctgagta | gctgggatta | caggcatgtg | 34320 |
| ccaccatgct | cagctaattt | ttgtattttt | agtagagacg | aggtttcacc | aagttggata | 34380 |
| ggctgggtctc | gaactctgac | ctcaggtgat | ccgcagcttc | ggccccccaa | agtgttccc | 34440 |
| cagggatctt | ctgacctagc | aatccagcta | tgacgggcag | gtacctgggc | cagtgaagc | 34500 |
| tgagtaacgt | tagctgcggc | tcctctgtgg | aatggagaca | gacgtggctg | tgcaaaggcc | 34560 |
| tcaccaggca | gtgcctccca | tgctgcctaa | gaagaggtgt | gaggcagaga | gagcagtgcc | 34620 |
| agggtcctcg | agtctggatc | c | | | | 34641 |

<210> 1111
 <211> 2640
 <212> DNA
 <213> Homo sapiens

| | |
|------------|--|
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| tgaattagat | gagacatctc aagagcttgt tccagaaaag accaatgtta agccaagggc 120 |
| aatgaaaact | attctaggtg atcaacgaaa acagatgctc caaaaataca aagaagaaaa 180 |
| gcaacttcaa | aaattgaaag agcagagaga gaaagctaaa cgaggaatat ttaaagtggg 240 |
| tcgttataga | cctgatatgc cttgttttct tttatcaaac cagaatgctg tgaaagctga 300 |
| gccaaaaaag | gctattccat cttctgtacg gattacaagg tcaaaggcca aagaccaaat 360 |
| ggagcagact | aagattgata acgagagtga tgttcgagca atccgacctg gtccaagaca 420 |
| aacttctgaa | aagaaagtgt cagacaaaga gaaaaaagtt gtgcagcctg taatgccac 480 |
| gtcgttgaga | atgactcgat cagctactca agcagcaaag caggttccca gaacagtctc 540 |
| atctaccaca | gcaagaaagc cagtcacaag agctgctaata gaaaacgaac cagaaggaaa 600 |
| ggtgccaaag | aaaggaagac ctgccaaaaa tgtagaaaca aaacccgaca aggggtatttc 660 |
| ttgtaaagtc | gatagtgaag aaaatacttt gaattcacaa actaatgcaa caagtggaa 720 |
| gaatccagat | ggagtcttat caaaaatgga aaacttacct gagataaata ctgcaaaaat 780 |
| aaaagggaag | aattccttcg cacctaagga ttttatgttt cagccactgg atgggtctgaa 840 |
| gacctatcaa | gtaacaccta tgactcccag aagtgccaat gcttttttga caccagttta 900 |
| cacctggact | cctttaaaaa cagaagttga tgagtctcaa gcaacaaaag aaattttggc 960 |
| acaaaaatgt | aaaacttact ctaccaagac aatacagcaa gattcaaata aattgccatg 1020 |
| tcctttgggt | cctctaactg tttggcatga agaactgtt ttaaataaaa atgaagctac 1080 |
| tactaaaaat | ttaaattggcc ttccaataaa agaagtccca tcacttgaaa gaaatgaagg 1140 |
| tcgaattgct | cagccccacc atgggtgtgcc atatttcaga aatatcctcc agtcagaaac 1200 |
| tgagaaatta | acttcacatt gcttcgagtg ggacaggaaa cttgaattgg acattccaga 1260 |
| tgatgctaaa | gatcttattc gcacagcagt tgggtcaaaca agactcctta tgaaggaaa 1320 |
| gtttaaacag | tttgaaggac tgggttgatga ttgtgaatat aaacgaggta taaaggagac 1380 |
| tacctgtaca | gatctggatg gattttggga tatggttagt tttcagatag aagatgtaat 1440 |
| ccacaaattc | aacaatctga tcaaacttga ggaatctggg tggcaagtca ataataatat 1500 |
| gaatcataat | atgaacaaaa atgtcttttag gaaaaaagtt gtctcaggta tagcaagtaa 1560 |
| acaaaaacag | gatgatgctg gaagaattgc agcgagaaat cgcctagctg ccataaaaaa 1620 |
| tgcaatgaga | gagagaatta ggcaggaaga atgtgctgaa acagcagttt ctgtgatacc 1680 |
| aaaggaagtt | gataaaatag tgttcgatgc tggatttttc agagttgaaa gtcctgttaa 1740 |
| attattctca | ggactttctg tctcttctga aggcccttct caaagacttg gaacacctaa 1800 |
| gtctgtcaac | aaagctgtat ctacagatag aaatgagatg ggcattccac aacaaactac 1860 |
| atcaccagaa | aatgccggtc ctacagaatac gaaaagtga catgtgaaga agactttgtt 1920 |
| tttgagtatt | cctgaaagca ggagcagcat agaagatgct cagtgtcctg gattaccaga 1980 |
| tttaattgaa | gaaaaccatg ttgtaaataa gacagacttg aaggtggatt gtttatccag 2040 |

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|------|
| tgagagaatg | agtttgcctc | ttcttgctgg | tggagtagca | gatgatatta | atactaacaa | 2100 |
| aaaagaagga | atttcagatg | ttgtggaagg | aatggaactg | aattcttcaa | ttacatcaca | 2160 |
| ggatgttttg | atgagtagcc | ctgaaaaaaa | tacagcttca | caaaatagca | tcttagaaga | 2220 |
| aggggaaact | aaaatttctc | agtcagaact | atttgataat | aaaagtctca | ctactgaatg | 2280 |
| ccaccttctt | gattcaccag | gtctaaactg | cagtaatcca | tttactcagc | tggagaggag | 2340 |
| acatcaagaa | catgccagac | acatttcttt | tgggtggtaac | ctgattactt | tttcacctct | 2400 |
| acaaccagga | gaattttgaa | tttaaaaata | aatccaaaca | ttttccttca | tattatcaat | 2460 |
| gcttatatat | tccttagact | attgaaattt | tggagaaaat | gtatttgtgt | tcacttctat | 2520 |
| agcatataat | gttttaatat | tctgtgttca | tcaaagtgtg | ttttagatat | actctttctc | 2580 |
| aagggaagtg | gggatatttt | gtacattttc | aacacagaat | aaaaaatgta | ctgtgccttg | 2640 |

<210> 1112
 <211> 2621
 <212> DNA
 <213> Homo sapiens

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|------------|------------|-------------|-------------|------------|-------------|------------|------|
| <400> 1112 | tgtatctgta | tcaagatgat | ctgaagaaca | gcttctacct | ttaggaatgt | ctagtgttcc | 60 |
| | aaaatgacta | gcatcttcca | ttttgccatt | atcttcatgt | taatacttca | gatcagaata | 120 |
| | caattatctg | aagaaagtga | atttttagtt | gataggtcaa | aaaacggtct | catccacgtt | 180 |
| | cctaaagacc | tatcccagaa | aacaacaatc | ttaaatatat | cgcaaaatta | tatatctgag | 240 |
| | ctttggactt | ctgacatctt | atcactgtca | aaactgagga | ttttgataat | ttctcataat | 300 |
| | acaatccagt | atcttgatat | cagtgttttc | aaattcaacc | aggaattgga | atacttggat | 360 |
| | ttgtcccaca | acaagttggg | gaagatttct | tgccacccta | ctgtgaacct | caagcacttg | 420 |
| | gacctgtcat | ttaatgcatt | tgatgccctg | cctatatgca | aagagtttgg | caatatgtct | 480 |
| | caactaaaat | ttctgggggt | gagcaccaca | cacttagaaa | aatctagtgt | gctgccaatt | 540 |
| | gctcatttga | atatcagcaa | ggtccttgctg | gtcttaggag | agacttatgg | ggaaaaagaa | 600 |
| | gaccctgagg | gccttcaaga | ctttaacact | gagagtctgc | acattgtgtt | ccccacaaac | 660 |
| | aaagaattcc | attttatttt | ggatgtgtca | gtcaagactg | tagcaaactc | ggaactatct | 720 |
| | aatatcaaat | gtgtgctaga | agataacaaa | tgttcttact | tcctaagtat | tctggcgaaa | 780 |
| | cttcaaacaa | atccaaagtt | atcaaactct | accttaaaca | acattgaaac | aacttggaat | 840 |
| | tctttcatta | ggatcctcca | gctgggtttg | catacaactg | tatggtatatt | ctcaatttca | 900 |
| | aacgtgaagc | tacaggggtca | gctggacttc | agagattttg | attattctgg | cacttccttg | 960 |
| | aaggccttgt | ctatacacca | agttgtcagc | gatgtgttcg | gttttccgca | aagttatatc | 1020 |
| | tatgaaatct | tttcgaatat | gaacatcaaa | aatttcacag | tgtctggtac | acgcatggtc | 1080 |
| | cacatgcttt | gcccattcaa | aattagcccg | ttcctgcatt | tggatttttc | caataatctc | 1140 |
| | ttaacagaca | cgggtttttga | aaattgtggg | caccttactg | agttggagac | acttatttta | 1200 |
| | caaatgaatc | aattaaaaga | actttcaaaa | atagctgaaa | tgactacaca | gatgaagtct | 1260 |
| | ctgcaacaat | tggatattag | ccagaattct | gtaagctatg | atgaaaagaa | aggagactgt | 1320 |
| | tcttggacta | aaagtttatt | aagtttaaat | atgtcttcaa | atatacttac | tgacactatt | 1380 |
| | ttcagatgtt | tacctccag | gatcaaggta | cttgatcttc | acagcaataa | aataaagagc | 1440 |
| | attcctaaac | aagtcgtaaa | actggaagct | ttgcaagaac | tcaatgttgc | tttcaattct | 1500 |
| | ttaactgacc | ttcctggatg | tggcagcttt | agcagccttt | ctgtattgat | cattgatcac | 1560 |
| | aattcagttt | cccacccatc | ggctgatttc | ttccagagct | gccagaagat | gaggtcaata | 1620 |
| | aaagcagggg | acaatccatt | ccaatgtacc | tgtgagctag | gagaattttg | caaaaatata | 1680 |
| | gaccaagtat | caagtgaagt | gttagagggc | tggcctgatt | cttataagtg | tgactacccg | 1740 |
| | gaaagttata | gaggaaccct | actaaaggac | tttcacatgt | ctgaattatc | ctgcaacata | 1800 |

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| actctgctga | tcgtcaccat | cgttgccacc | atgctggtgt | tggctgtgac | tgtgacctcc | 1860 |
| ctctgcagct | acttggatct | gccctggtat | ctcaggatgg | tgtgccagtg | gacctcagacc | 1920 |
| cggcgcaggg | ccaggaacat | acccttagaa | gaactccaaa | gaaatctcca | gtttcatgca | 1980 |
| tttatttcat | atagtgggca | cgattctttc | tgggtgaaga | atgaattatt | gccaaaccta | 2040 |
| gagaaagaag | gtatgcagat | ttgccttcat | gagagaaact | ttgttctctg | caagagcatt | 2100 |
| gtggaaaata | tcatcacctg | cattgagaag | agttacaagt | ccatctttgt | tttgtctccc | 2160 |
| aactttgtcc | agagtgaatg | gtgccattat | gaactctact | ttgcccatac | caatctcttt | 2220 |
| catgaaggat | ctaatagctt | aatcctgatc | ttgctggaac | ccattccgca | gtactccatt | 2280 |
| cctagcagtt | atcacaagct | caaaagtctc | atggccagga | ggacttattt | ggaatggccc | 2340 |
| aaggaaaaga | gcaaacgtgg | ccttttttgg | gctaacttaa | gggcagccat | taatattaag | 2400 |
| ctgacagagc | aagcaaagaa | atagattaca | catcaagtga | aaaatattcc | tcctgttgat | 2460 |
| attgctgctt | ttggaagttc | caacaatgac | tttattttgc | atcagcatag | atgtaaacac | 2520 |
| aattgtgagt | gtatgatgta | ggtaaaaata | tataccttcg | ggtcgcagtt | caccatttat | 2580 |
| atgtggtatt | aaaaattaat | gaaatgatat | aactttgatt | t | | 2621 |

<210> 1113
 <211> 836
 <212> DNA
 <213> Homo sapiens

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| <400> 1113 | gtgaaacacc | ctcggctggg | aagtcagttc | gttctctcct | ctcctctctt | cttgtttgaa | 60 |
| | catggtgcgg | actaaagcag | acagtgttcc | aggcacttac | agaaaagtgg | tggctgctcg | 120 |
| | agcccccaga | aaggtgcttg | gttcttccac | ctctgccact | aattcgacat | cagtttcatc | 180 |
| | gaggaaagct | gaaaataaat | atgcaggagg | gaaccccggt | tgcgtgcgcc | caactcccaa | 240 |
| | gtggcaaaaa | ggaattggag | aattcttttag | gttgtccctt | aaagattctg | aaaaagagaa | 300 |
| | tcagattcct | gaagaggcag | gaagcagtg | cttaggaaaa | gcaaagagaa | aagcatgtcc | 360 |
| | tttgcaacct | gatcacacaa | atgatgaaaa | agaatagaac | tttctcattc | atctttgaat | 420 |
| | aacgtctcct | tgtttaccct | ggtattctag | aattgtaaatt | tacataaatg | tgtttgttcc | 480 |
| | aattagcttt | gttgaacagg | catttaatta | aaaaatttag | gtttaaattt | agatgttcaa | 540 |
| | aagtagttgt | gaaatttgag | aatttgtaag | actaattatg | gtaacttagc | ttagtattca | 600 |
| | atataatgca | ttgtttgggt | tcttttacca | aattaagtgt | ctagttcttg | ctaaaatcaa | 660 |
| | gtcattgcat | tgtgttctaa | ttacaagtat | gttgattttg | agatttgctt | agattgtttg | 720 |
| | actgctgcca | tttttattgg | tgtttgatta | ttggaatggt | gccatattgt | cactccttct | 780 |
| | acttgcttta | aaaagcagag | ttagattttt | gcacattaaa | aaattcagta | ttaatt | 836 |

<210> 1114
 <211> 1322
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | cgccaggact | ctgctccccc | cgccggcctc | tatgcctgc | agggccacag | cggggcctgt | 120 |
| | ccggcagcag | agcactgggc | cttccgagcc | cgggtgcgtc | caaccgccgc | cgaaccgggt | 180 |
| | catcgtggac | aagcaccgcc | ccgtggaacc | ggaacgcagg | ttcttgagtc | ctgaattcat | 240 |
| | tcctcgaagg | ggaagaacag | atcctctgaa | atttcaaata | gaaagaaaag | atatgttaga | 300 |
| | aaggagaaaa | gtactccaca | ttccagagtt | ctatgttgga | agtattcttc | gtgttactac | 360 |
| | agctgaccca | tatgccagt | gaaaaatcag | ccagtttctg | gggatttgca | ttcagagatc | 420 |
| | aggaagagga | cttgaggcta | ctttcatcct | taggaatggt | atcgaaggac | aaggtgtcga | 480 |
| | gatttgcttt | gaactttata | atcctcgggt | ccaggagatt | caggtggtca | aattagagaa | 540 |

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|-------------|-------------|-------------|-------------|-------------|-------------|------|
| acggctggat | gatagcttgc | tatacttacg | agatgccctt | cctgaatata | gcacttttga | 600 |
| tgtgaatatg | aagccagtag | tacaagagcc | taacccaaaa | gttcctgtta | atgagctgaa | 660 |
| agtaaaaatg | aagcctaagc | cctgggtctaa | acgctgggaa | cgtccaaatt | ttaatattaa | 720 |
| aggaatcaga | tttgatcttt | gtttaactga | acagcaaattg | aaagaagctc | agaagtggaa | 780 |
| tcagccatgg | cttgaatttg | atatgatgag | ggaatatgat | acttcaaaaa | ttgaagctgc | 840 |
| aatatggaag | gaaattgaag | cgtcgaaaag | gtcttgattc | tgagaatgaa | tttggttagt | 900 |
| tgacagaagat | acattgggctc | taagaggata | tatttttgaga | ccaatttaaat | ttcattttata | 960 |
| agaacatagt | aattaagtga | actaagcatt | cattgtttta | ttaatacttt | ttttctaaaa | 1020 |
| taaaacttgt | acaccagttt | attactctaa | aaagagaatt | acacatgcca | aatggacca | 1080 |
| tgtccatttg | cttattggag | gcaaagctac | aatagaagtc | agagcatcac | cagaatggtc | 1140 |
| tttaatgagc | atggaacctg | agcaaaggga | ataggtggga | tgaatttttt | ttttaattgt | 1200 |
| gaaacaattc | ataagcacia | tatgatttac | agaataataa | acattcatgt | accactatc | 1260 |
| aggttaagaa | atagaacatt | tattaatatg | taggaatgtt | aagaaataaa | acattttaata | 1320 |
| ag | | | | | | 1322 |

<210> 1115
 <211> 6586
 <212> DNA
 <213> Homo sapiens

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| cctacaggcg | accactgctc | tgcgggcggg | tggctcttagc | tccagtcccc | cattcagttc | 180 |
| ctcagcattc | caggtcggcg | gcgaaggggt | ccccgaacga | agggcgcaag | gcagcgtctc | 240 |
| tgctgggacc | gggaagccgg | acttcagggc | ctctcggccc | gtgggcttct | ccccgagtct | 300 |
| ccccgagtcg | gttggcatta | agagtttagc | agatactttc | agaaatggat | acataagaaa | 360 |
| tggctggaaa | tcaaatgaat | gtccaaagaa | gagcttaggg | tcttagtaac | attctttttt | 420 |
| aaaataactg | tctgccaaaa | tgctattaca | cagtactcat | aatagaaata | acagcgggtga | 480 |
| tattcttgat | attccttctt | cccaaaatag | ttcatcactg | aatgccctca | cccacagtag | 540 |
| ccgacttaag | ctgcatttga | agtcggatat | gtcagaatgt | gaaaatgatg | atccattatt | 600 |
| gagatctgca | ggtaaagtca | gagacataaa | tagaacttat | gttatttctg | ccagtagaaa | 660 |
| aacagcagac | atgcccctta | cccctaatac | tgtaggtaga | ttggcacttc | agaggagAAC | 720 |
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| | ggaaagacag | tggttcctga | ctcaggaaga | cagtctcaga | aacatgtgga | atgatattga | 180 |
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| ctacaactag | attagtgaat | ccagatcaac | tgttgaatga | aataatgtct | attcttccaa | 1920 |
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<210> 1122
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 <212> DNA
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| | | | | | | | |
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| <400> 1123 | cttctcttgc | acttgccgat | gatgaactgg | aataacgatg | aaagaaagca | catccgatct | 60 |
| | caacattcac | gtcctgccct | ataaccgatt | aattaattga | tcccagcta | gactagtgtt | 120 |
| | ggagaaatca | gcatgttaaa | acaactgttg | atgatagctg | ttggagtaaa | gttgcagtgg | 180 |
| | aagctatggc | tgcaaaatcg | ttaaaatctt | caaggtgaac | tggcacaag | gttaatctca | 240 |
| | agatgccgct | agtgaaga | aacatcgatc | ctaggcactt | gtgccacaca | gcactgccta | 300 |
| | gaggcattaa | gaatgaactg | gaatgtgtaa | ccaatatttc | cttggcaaat | ataattagac | 360 |
| | aactaagtag | cctaagtaaa | tatgctgaag | atatatttgg | agaattattc | aatgaagcac | 420 |
| | atagtttttc | cttcagagtc | aactcattgc | aagaacgtgt | ggaccgttta | tctgttagtg | 480 |
| | ttacacagct | tgatccaaag | gaagaagaat | tgtctttgca | agatataaca | atgaggaaag | 540 |
| | ctttccgaag | ttctacaatt | caagaccagc | agcttttcga | tcgcaagact | ttgcctattc | 600 |
| | cattacagga | gacgtacgat | gtttgtgaac | agcctccacc | tctcaatata | ctcactcctt | 660 |

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|------|
| atagagatga | tggtaaagaa | ggtctgaagt | tttataccaa | tccttcgtat | ttctttgatc | 720 |
| tatggaaaga | aaaaatgttg | caagatacag | aggataagag | gaaggaaaag | aggaagcaga | 780 |
| agcagaaaaa | tctagatcgt | cctcatgaac | cagaaaaagt | gccaagagca | cctcatgaca | 840 |
| ggcggcgaga | atggcagaag | ctggcccaag | gtccagagct | ggctgaagat | gatgctaate | 900 |
| tcttacataa | gcatattgaa | gttgctaatt | gccagacctc | tcattttgaa | acaagacctc | 960 |
| agacatacgt | ggatcatatg | gatggatctt | actcactttc | tgcccttgcca | tttagtcaga | 1020 |
| tgagtgagct | tctgactaga | gctgaggaaa | gggtattagt | cagaccacat | gaaccacctc | 1080 |
| cacctccacc | aatgcatgga | gcaggagatg | caaaaccgat | acccacctgt | atcagttctg | 1140 |
| ctacagggtt | gatagaaaat | cgccctcagt | caccagctac | aggcagaaca | cctgtgtttg | 1200 |
| tgagccccac | tccccacct | cctccaccac | ctcttccatc | tgccctgtca | acttctctat | 1260 |
| taagagcttc | aatgacttca | actcctcccc | ctccagtacc | tccccacct | ccacctccag | 1320 |
| ccactgcttt | gcaagctcca | gcagtaccac | cacctccagc | tcctcttcag | attgccccctg | 1380 |
| gagttcttca | cccagctcct | cctccaattg | cacctcctct | agtacagccc | tctccaccag | 1440 |
| tagctagagc | tgccccagta | tgtgagactg | taccagttca | tccactccca | caaggtgaag | 1500 |
| ttcaggggct | gcctccaccc | ccaccaccgc | ctcctctgcc | tcacactggc | attcgaccat | 1560 |
| catcacctgt | cacagttaca | gctcttgetc | atcctccctc | tgggctacat | ccaactccat | 1620 |
| ctactgcccc | aggtccccat | gttccattaa | tgcttccatc | tcctccatca | caagttatac | 1680 |
| ctgcttctga | gccaaagcgc | catccatcaa | ccctacctgt | aatcagtgat | gccaggagtg | 1740 |
| tgctactgga | agcaatacga | aaaggtattc | agctacgcaa | agtagaagag | cagcgtgaac | 1800 |
| aggaagctaa | gcatgaacgc | attgaaaacg | atgttgccac | catcctgtct | cgccgtattg | 1860 |
| ctgttgataa | tagtgattcg | gaagatgatt | cagaatttga | tgaagtagat | tggttggagt | 1920 |
| aagaaaaatg | cattgataaa | tattacaaaa | ctgaatgcaa | atgtcctttg | tggtgcttgt | 1980 |
| tccttgaaaa | tgtttggtca | ttctagtgtt | ttgctttctt | ttccttataa | taaatgacct | 2040 |
| ttttcctcca | taacttttga | tttctaagga | aaatattagc | atacatttca | aactaaatgt | 2100 |
| tttacagtgg | cttatctttt | ttttccccct | gaaaagacta | atttggtcaa | ataaaccact | 2160 |
| aagtattaag | catggacagc | tggtgttaga | gtagcagatt | cagttttttg | atatacttta | 2220 |
| attgtgtact | ttgtgaattt | taattttaaag | aaagcaactg | aaattgaaat | cttgaggggca | 2280 |
| gctgtatcta | ctaatagacc | ttattccatt | tcctgatgtt | ttaaaagaag | aaacactgcc | 2340 |
| ttgattatac | gaatacactc | agaaagtaca | tttagcttgt | agtgttgaat | tctcttaaag | 2400 |
| gaatgcttga | attttttcat | tattgtttta | ttgtttttat | atacttgctt | tatttgaatg | 2460 |
| tttagcagta | tccccttccc | acttatatat | tgtgtgatat | gattttgctt | gcctatagga | 2520 |
| gttaaaaact | tttccatgtg | aaatactctg | acttaaacat | acatgtaact | tacataactg | 2580 |
| ttaagaataa | cagtctgatt | taataaatgg | ttcattttta | aagtt | | 2625 |

<210> 1124
 <211> 1479
 <212> DNA
 <213> Homo sapiens

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| <400> 1124 | | | | | | |
| cgagctgcca | tgagcctctg | ggtggacaag | tatcggccct | gctccttggg | acggctggac | 60 |
| tatcacaagg | agcaggcggc | ccagctgcgg | aacctggtgc | agtgtggtga | ctttcctcat | 120 |
| ctgttagtgt | acggaccatc | aggtgctgga | aaaaagacaa | gaattatgtg | tattttacgt | 180 |
| gaactttatg | gtgttggagt | ggaaaaattg | agaattgaac | atcagaccat | cacaactcca | 240 |
| tctaaaaaaa | aaattgaaat | tagcaccatt | gcaagtaact | accaccttga | agttaatcct | 300 |
| agtgatgctg | gaaatagtga | ccgagtagtc | attcaggaga | tggtgaaaac | agtggcacaa | 360 |
| tcacaacaac | ttgaaacaaa | ctctcaaagg | gatttttaag | tggtattatt | gacagaagtt | 420 |

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|------------|------------|------------|-------------|-------------|------------|------|
| gacaaactca | ccaaagatgc | tcagcatgcc | ttgcgaagaa | ccatggaaaa | atatatgtct | 480 |
| acctgcagat | tgatcttgtg | ctgcaattct | acatctaaag | tgatcccacc | tattcgtagt | 540 |
| aggtgcttgg | cggttcgtgt | gcctgctccc | agcattgaag | atatttgcca | cgtgttatct | 600 |
| actgtgtgta | agaaggaagg | tctgaatcct | ccttcacaac | tggctcatag | acttgcagag | 660 |
| aagtcttgta | gaaatctcag | aaaagccctg | cttatgtgtg | aagcctgcag | agtgcacaac | 720 |
| tatcctttta | ctgcagatca | agaaatccct | gagacagatt | gggaggtgta | tctgagggag | 780 |
| actgcaaagt | ctattgtcag | tcagcaaact | ccacaaaggc | tccttgaagt | tcgtggaagg | 840 |
| ctgtatgagc | ttctaactca | ttgtattcct | cctgagataa | taatgaaggg | ccttctctca | 900 |
| gaactgttac | ataattgtga | tggacaactg | aaaggggagg | tggcacaagt | ggcagcttac | 960 |
| tatgagcatc | gtctacagct | gggtagcaaa | gccatttatc | acttgggaagc | gtttgtggcc | 1020 |
| aaattcatgg | cactttataa | gaagttcatg | gaggatggat | tggaaggcat | gatgttctga | 1080 |
| cttctgtcag | ttattcttgc | aaagatttct | cagtatcagt | atttacatac | agcttatatt | 1140 |
| aaaagagctg | tgggtaaatt | aactgaactt | aatcatgtcg | tatttgggtt | tttttggtaa | 1200 |
| taacttctct | gtgaactatt | aatcatcctc | tgagttaaatt | aattgtcctc | atactattga | 1260 |
| agtatgtagt | tttgtacata | acttagagac | tttagagtct | aagaaaatga | tcttaattta | 1320 |
| ctttaagcat | tggttattca | agtattcatt | gttgatcctc | ctattctctt | ccgtctaate | 1380 |
| tctcacctgc | taaaggagat | ttacacatta | gaaagcaaag | attattttca | tttatccaga | 1440 |
| tgaccatttt | ctgccacagg | taacatgatt | gtttgacgg | | | 1479 |

<210> 1125
 <211> 1924
 <212> DNA
 <213> Homo sapiens

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| <400> 1125 | taggaaacta | acattatgga | tttttccaag | ctacccaaaa | tactcgatga | agataaagaa | 60 |
| | agcacatttg | gttatgtgca | tgggggtctca | ggacctgtgg | ttacagcctg | tgacatggcg | 120 |
| | ggtgcagcca | tgtatgagct | ggtgagagtg | ggccacagcg | aattgggttg | agagattatt | 180 |
| | cgattggagg | gtgacatggc | tactattcag | gtgtatgaag | aaacttgtgg | tgtgtctgtt | 240 |
| | ggagatcctg | tacttcgcac | tggtaaacc | ctctctgtag | acgttgggtc | tggcattatg | 300 |
| | ggagccattt | ttgatggtat | tcaaagacct | ttgtcggata | tcagcagtc | gacccaaagc | 360 |
| | atctacatcc | ccagaggagt | aaacgtgtct | gctcttagca | gagatatcaa | atgggacttt | 420 |
| | acaccttgca | aaaacctacg | ggttggtagt | catatcactg | gcggagacat | ttatggaatt | 480 |
| | gtcagtgaga | actcgcttat | caaacacaaa | atcatgttac | ccccacgaaa | cagaggaact | 540 |
| | gtaacttaca | ttgtccacc | tgggaattat | gatacctctg | atgttgtctt | ggagcttgaa | 600 |
| | tttgaagggt | taaaggagaa | gttcaccatg | gtgcaagtat | ggcctgcacg | tcaagttcga | 660 |
| | cctgtcactg | agaagctgcc | agccaatcat | cctctgttga | ctggccagag | agtccttgat | 720 |
| | gccctttttc | cgtgtgtcca | gggaggaact | actgctatcc | ctggagcctt | tggctgtgga | 780 |
| | aagacagtga | tatcacagtc | tctatccaag | tattctaaca | gtgatgtaat | catctatgta | 840 |
| | ggatgtggtg | aaagaggaaa | tgagatgtct | gaagtcctcc | gggacttccc | agagctcaca | 900 |
| | atggaggttg | atggtaagg | agagtcaatt | atgaagagga | cagctttggg | agccaatacc | 960 |
| | tccaatatgc | ctgttgctgc | tagagaagcc | tctatttata | ctggaatcac | actgtcagag | 1020 |
| | tacttccgtg | acatgggcta | tcatgtcagt | atgatggctg | actctacctc | tagatgggct | 1080 |
| | gaggccctta | gagaaatctc | tggctgttta | gctgaaatgc | ctgcagatag | tggatatcca | 1140 |
| | gcctatcttg | gtgcccgtct | ggcctcgttt | tatgaacgag | caggcagggt | gaaatgtctt | 1200 |
| | ggaaatcctg | aaagagaagg | gagtgtcagc | attgtaggag | cagtttctcc | acctggtggt | 1260 |
| | gatttttctg | atccagttac | atctgccact | cttggtatcg | ttcaggtgtt | ctggggctta | 1320 |
| | gataagaaac | tagctcaacg | taagcatttc | ccctctgtca | attggctcat | cagctacagc | 1380 |

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|------------|------------|-------------|-------------|------------|-------------|------|
| aagtatatgc | gtgccttgga | tgaatactat | gacaaacact | tcacagagtt | cgttcctctg | 1440 |
| aggacgaaag | ctaaggaaat | tctgcaggaa | gaagaagacc | tggcagaaat | tgtacagctt | 1500 |
| gtgggaaagg | cttctttggc | agaaacagat | aaaatcactc | tggaggtagc | aaaacttatac | 1560 |
| aaagatgatt | tcctacaaca | aaatggatat | actccttatg | acaggttctg | cccattctac | 1620 |
| aagacagtag | ggatgctgtc | caacatgatt | gcatttttatg | atatggctcg | tagagctggt | 1680 |
| gaaaccactg | cccagagtga | caataaaaatc | acatgggtcca | ttattcgtga | gcacatggga | 1740 |
| gacatcctct | ataaactttc | ctccatgaaa | ttcaaggatc | cactgaaaga | tggtagggca | 1800 |
| aagatcaaaa | gcgactatgc | acaacttctt | gaagacatgc | agaatgcatt | ccgtagcctt | 1860 |
| gaagattaga | agccttgaag | attacaactg | tgatttcctt | ttcctcagca | agctcctccg | 1920 |
| gaat | | | | | | 1924 |

<210> 1126
 <211> 2309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------------|------|
| <400> 1126 | tttgtcttca | agagtttttc | gagaccaggg | aagaaggaag | gaaatgcccc | gtttgatcgt | 60 |
| gggagtggta | aaatgataaa | gtagatctgg | gtggggtttg | tagcaccaga | gcataatgga | | 120 |
| gaaacacctt | ggttttgtaa | tcaagactgg | atctaccagt | gacttgctga | ataacttcgg | | 180 |
| tgattccttt | ctcttcttgg | gtctcactgt | atttcaaaac | atgaagaatt | tcattgtaat | | 240 |
| gttacctaata | aagtgagcca | gcacttctac | tctgtgagaa | agtaggaaaa | ctcttgggac | | 300 |
| aatcagagat | gatgtgatgt | aatgtccatt | agttcttcct | gtgaataatc | ctgaggggaa | | 360 |
| gccccagggt | ccctcccaga | atgggggtgga | tatttcccaa | tacagctaag | gaattatccc | | 420 |
| ttgtaaatac | cacagaccog | ccctggagcc | aggccaagct | ggactgcata | aagattggta | | 480 |
| tggccttagc | tcttagccaa | acaccttcct | gacaccatga | gggccagcag | cttcttgatc | | 540 |
| gtgggtggtg | tcctcatcgc | tgggacgctg | gttctagagg | cagctgtcac | gggaggtgag | | 600 |
| tgaacagggtg | acctgctggg | ctgggttgga | ctaaggggag | accctctgga | caccctgggc | | 660 |
| caggacaggg | agcactactg | aagcagtagg | cagcactgga | gcccagattt | cagctttctg | | 720 |
| ttctttgcca | tcataattcag | aaaaaatagg | actttggctg | gtggactcca | cgtgctttcc | | 780 |
| acctcagtga | ctgagatatc | aggactgttt | gtggaagtaa | tgttggtatg | tggccttggc | | 840 |
| ctcagatgtc | aatacctgtg | cagaatgtgc | aataaaataa | tgaactccag | gattttaaac | | 900 |
| cttgggtgtg | gacacagtcc | ccgtttctct | gccccataaa | agcactggag | taatcagtac | | 960 |
| tctaaaagga | ggttaagaaa | caacaagcct | tcaggaatca | tgttgtttga | ggacccccat | | 1020 |
| tttataagga | gggaacccaa | aatgtagaaa | tgagttagca | attgccaagg | taattcccag | | 1080 |
| agccaggatg | gggctcaagt | ctcctagtat | gtggctcagg | gttctttcct | actccaatgc | | 1140 |
| acttcctaac | aaatgacaat | gtgtcctctt | cactgctggg | tgtcacccca | gtctgaccac | | 1200 |
| tgctcctgag | agacttgag | tggaggaagg | gggaagaaac | aaataactca | gggaactctg | | 1260 |
| gtcctgtaga | ccacccccaa | aaaggaagag | ccttccaaga | gtgtagctcc | cagaggtgta | | 1320 |
| ccttccttac | tcaggccatg | gtttgaggat | gctgcagtaa | gcagtggatg | gaccagacc | | 1380 |
| cagaggaaag | acatggcagc | tgaagcagag | gcttactggg | tataaatgtg | ggctcgtttc | | 1440 |
| ttcttttaac | agttcctggt | aaaggtcaag | acactgtcaa | aggccgtggt | ccattcaatg | | 1500 |
| gacaagatcc | cgttaaagga | caagtttcag | ttaaaggtca | agataaagtc | aaagcgcaag | | 1560 |
| agccagtcaa | aggtccagtc | tccactaagc | ctggctcctg | ccccattatc | ttgatccggt | | 1620 |
| gcgccatggt | gaatccccct | aaccgctgct | tgaaagatac | tgactgcccc | ggaatcaaga | | 1680 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| agtgtgtga | aggctcttgc | gggatggcct | gtttcgttcc | ccagtgaggt | gagcactagc | 1740 |
| tggagaacga | ggagaccct | gaagacacaa | aagaaggctg | agcgggtggg | aagcatccca | 1800 |
| ggttggtggg | agggaggttg | tgggaggtga | cagaaagact | gggagactga | ggggtctgag | 1860 |
| aggctataac | cagagtgcct | agaaggatga | tctgtcttcc | tcactgcctc | tgagtgcttt | 1920 |
| gatgtgtga | ctctcacctc | tgatactctt | ctcttccaca | gagggagccg | gtccttgctg | 1980 |
| cacctgtgcc | gtccccagag | ctacaggccc | catctggtcc | taagtccctg | ctgcccttcc | 2040 |
| ccttcccaca | ctgtccattc | ttcctcccat | tcaggatgcc | cacggctgga | gctgcctctc | 2100 |
| tcacccactt | tccaataaag | acttcttctt | gctccacttg | tttctggttc | ctatgacttc | 2160 |
| tgggtctcctg | gatgcttttg | ggaaatggat | gtagaattgg | gacttcttct | ctccagtga | 2220 |
| gaggggaaac | ggtcccatgg | tgaaagagag | caggnnggag | gaaacaagga | ggcacatgct | 2280 |
| agggttcat | attacaatcc | aataatcag | | | | 2309 |

<210> 1127
 <211> 1778
 <212> DNA
 <213> Homo sapiens

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| <400> 1127 | caatgaagtt | tcttctaata | ctgtctctgc | aggccactgc | ttctggagct | 60 |
| tagaagttaa | cttcccctga | acagctctac | aagcctggaa | aaaaataatg | tgctatttgg | 120 |
| ttagaaaaat | tttatggcct | tgagataaac | aaacttccag | tgacaaaaat | gaaatatagt | 180 |
| ggaaacttaa | tgaaggaaaa | aatccaagaa | atgcagcact | tcttggtct | gaaagtgacc | 240 |
| gggcaactgg | acacatctac | cctggagatg | atgcacgcac | ctcgatgtgg | agtccccgat | 300 |
| ctccatcatt | tcagggaat | gccagggggg | cccgtatgga | ggaaacatta | tatcacctac | 360 |
| agaatcaata | attacacacc | tgacatgaac | cgtgaggatg | ttgactacgc | aatccggaaa | 420 |
| gctttccaag | tatggagtaa | tgttaccccc | ttgaaattca | gcaagattaa | cacaggcatg | 480 |
| gctgacattt | tgggtggttt | tgcccgtgga | gctcatggag | acttccatgc | ttttgatggc | 540 |
| aaagggtgaa | tcctagccca | tgcttttgga | cctggatctg | gcattggagg | ggatgcacat | 600 |
| ttcgatgagg | acgaattctg | gactacacat | tcaggaggca | caaacttggt | cctcactgct | 660 |
| gttcacgaga | ttggccattc | cttaggtctt | ggccattcta | gtgatccaaa | ggctgtaatg | 720 |
| ttccccacct | acaaatatgt | cgacatcaac | acatttcgcc | tctctgctga | tgacatacgt | 780 |
| ggcattcagt | ccctgtatgg | agacccaaaa | gagaaccaac | gcttgccaaa | tcctgacaat | 840 |
| tcagaaccag | ctctctgtga | cccccaattg | agttttgatg | ctgtcactac | cgtgggaaat | 900 |
| aagatctttt | tcttcaaaga | caggttcttc | tggctgaagg | tttctgagag | accaaagacc | 960 |
| agtgttaatt | taatttcttc | cttatggcca | accttgccat | ctggcattga | agctgcttat | 1020 |
| gaaattgaag | ccagaaatca | agtttttctt | tttaaagatg | acaaatactg | gttaattagc | 1080 |
| aatttaagac | cagagccaaa | ttatcccaag | agcatacatt | cttttggttt | tcctaacttt | 1140 |
| gtgaaaaaaa | ttgatgcagc | tgtttttaac | ccacgttttt | ataggaccta | cttctttgta | 1200 |
| gataaccagt | attggaggta | tgatgaaagg | agacagatga | tggaccctgg | ttatcccaaa | 1260 |
| ctgattacca | agaacttcca | aggaatcggg | cctaaaattg | atgcagtctt | ctattctaaa | 1320 |
| aacaaatact | actatttctt | ccaaggatct | aaccaatttg | aatatgactt | cctactccaa | 1380 |
| cgtatcacca | aaacactgaa | aagcaatagc | tggtttggtt | gttagaaatg | gtgtaattaa | 1440 |
| tggtttttgt | tagttcactt | cagcttaata | agtatttatt | gcatatttgc | tatgtcctca | 1500 |
| gtgtaccact | acttagagat | atgtatcata | aaaataaaat | ctgtaaacca | taggtaatga | 1560 |
| ttatataaaa | tacataatat | ttttcaattt | tgaaaactct | aattgtccat | tcttgcttga | 1620 |
| ctctactatt | aagtttgaaa | atagttacct | tcaaagcaag | ataattctat | ttgaagcatg | 1680 |
| ctctgtaagt | tgcttcctaa | catccttgga | ctgagaaatt | atacttactt | ctggcataac | 1740 |

taaaattaag tatatatatt ttggctcaaa taaaattg

1778

<210> 1128
<211> 3107
<212> DNA
<213> Homo sapiens

| | | | | | | | |
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| <400> 1128 | aagcggcagg | agcagcgttg | gcaccggcga | accatggctg | ggattttcta | tttcgcccta | 60 |
| | ttttcgtgtc | tcttcgggat | ttgcgacgct | gtcacagggt | ccaggggtata | ccccgcgaat | 120 |
| | gaagttacct | tattggattc | cagatctgtt | cagggagAAC | ttgggtggat | agcaagccct | 180 |
| | ctggaaggag | ggtgggagga | agtgagtatc | atggatgaaa | aaaatacacc | aatccgaacc | 240 |
| | taccaagtgt | gcaatgtgat | ggaaccagc | cagaataact | ggctacgaac | tgattggatc | 300 |
| | acccgagaag | gggctcagag | ggtgtatatt | gagattaaat | tcaccttgag | ggactgcaat | 360 |
| | agtcttccgg | gcgtcatggg | gacttgcaag | gagacgttta | acctgtacta | ctatgaatca | 420 |
| | gacaacgaca | aagagcgttt | catcagagag | aaccagtttg | tcaaaattga | caccattgct | 480 |
| | gctgatgaga | gcttcaccca | agtggacatt | ggtgacagaa | tcatgaagct | gaacaccgag | 540 |
| | atccgggatg | tagggccatt | aagcaaaaag | gggttttacc | tggcttttca | ggatgtgggg | 600 |
| | gcctgcatcg | ccctgggtatc | agtccgtgtg | ttctataaaa | agtgtccact | cacagtccgc | 660 |
| | aatctggccc | agtttcctga | caccatcaca | ggggctgata | cgtcttccct | ggtggaagtt | 720 |
| | cgaggctcct | gtgtcaacaa | ctcagaagag | aaagatgtgc | caaaaatgta | ctgtggggca | 780 |
| | gatggtgaat | ggctgggtacc | cattggcaac | tgcctatgca | acgctgggca | tgaggagcgg | 840 |
| | agcggagaat | gccaagcttg | caaaattgga | tattacaagg | ctctctccac | ggatgccacc | 900 |
| | tgtgccaagt | gcccacccca | cagctactct | gtctgggaag | gagccacctc | gtgcacctgt | 960 |
| | gaccgaggct | ttttcagagc | tgacaacgat | gctgcctcta | tgccctgcac | ccgtccacca | 1020 |
| | tctgctcccc | tgaacttgat | ttcaaagtgc | aacgagacat | ctgtgaactt | ggaatggagt | 1080 |
| | agccctcaga | atacagggtg | ccgccaggac | atttcctata | atgtgggtatg | caagaaatgt | 1140 |
| | ggagctgggtg | accccagcaa | gtgccgaccc | tgtggaagtg | gggtccacta | cacccacag | 1200 |
| | cagaatggct | tgaagaccac | caaagtctcc | atcactgacc | tcctagctca | taccaattac | 1260 |
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| | aaagaagtca | caagatacag | tgtggcactg | gcttggctgg | aaccagatcg | gccaatggg | 1440 |
| | gtaatcctgg | aatatgaagt | caagtattat | gagaaggatc | agaatgagcg | aagctatcgt | 1500 |
| | atagttcggg | cagctgccag | gaacacagat | atcaaaggcc | tgaaccctct | cacttccat | 1560 |
| | gttttccacg | tgcgagccag | gacagcagct | ggctatggag | acttcagtga | gcccttggag | 1620 |
| | gttacaacca | acacagtgcc | ttcccggatc | attggagatg | gggctaactc | cacagtcctt | 1680 |
| | ctggtctctg | tctcgggcag | tgtggtgctg | gtggtaatc | tcattgcagc | ttttgtcatc | 1740 |
| | agccggagac | ggagtaaata | cagtaaagcc | aaacaagaag | cggatgaaga | gaaacatttg | 1800 |
| | aatcaagggtg | taagaacata | tgtggacccc | tttacgtacg | aagatcccaa | ccaagcagtg | 1860 |
| | cgagagtttg | ccaaagaaat | tgacgcatcc | tgcattaaga | ttgaaaaagt | tataggagtt | 1920 |
| | ggtgaatttg | gtgaggtatg | cagtgggcgt | ctcaaagtgc | ctggcaagag | agagatctgt | 1980 |
| | gtggctatca | agactctgaa | agctggttat | acagacaaac | agaggagaga | cttccctgagt | 2040 |
| | gaggccagca | tcatgggaca | gtttgaccat | ccgaacatca | ttcacttggg | aggcgtgggtc | 2100 |
| | actaaatgta | aaccagtaat | gatcataaca | gagtacatgg | agaatggctc | cttggatgca | 2160 |
| | ttcctcagga | aaaatgatgg | cagatttaca | gtcattcagc | tgggtgggcat | gcttcgtggc | 2220 |
| | attgggtctg | ggatgaagta | tttatctgat | atgagctatg | tgcacgtgga | tctggccgca | 2280 |
| | cggaaacatcc | tggatgaacag | caacttggtc | tgcaaagtgt | ctgatttttg | catgtcccga | 2340 |
| | gtgcttgagg | atgatccgga | agcagcttac | accaccaggg | gtggcaagat | tcctatccgg | 2400 |

0954456 094304

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| tggactgcgc | cagaagcaat | tgcctatcgt | aaattcacat | cagcaagtga | tgtatggagc | 2460 |
| tatggaatcg | ttatgtggga | agtgatgtcg | tacggggaga | ggccctattg | ggatatgtcc | 2520 |
| aatcaagatg | tgattaaagc | cattgaggaa | ggctatcggt | tacccctcc | aatggactgc | 2580 |
| cccattgcgc | tccaccagct | gatgctagac | tgctggcaga | aggagaggag | cgacaggcct | 2640 |
| aaatttgggc | agattgtcaa | catgttggac | aaactcatcc | gcaaccccaa | cagcttgaag | 2700 |
| aggacaggga | cggagagctc | cagacctaac | actgccttgt | tggatccaag | ctccctgaa | 2760 |
| ttctctgctg | tggatcagct | gggcgattgg | ctccaggcca | ttaaaatgga | ccggtataag | 2820 |
| gataacttca | cagctgctgg | ttataccaca | ctagaggctg | tggatgcacgt | gaaccaggag | 2880 |
| gacctggcaa | gaattggtat | cacagccatc | acgcaccaga | ataagatttt | gagcagtgtc | 2940 |
| caggcaatgc | gaacccaaat | gcagcagatg | cacggcagaa | tggttcccg | ctgagccagt | 3000 |
| actgaataaa | ctcaaaactc | ttgaaattag | tttacctcat | ccatgcactt | taattgaaga | 3060 |
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<210> 1129
 <211> 993
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | tacaaaattg | cagcccttgt | cttctatagc | tgtatcttca | taattggatt | atttggttaac | 120 |
| | atcactgcat | tatgggtttt | cagttgtacc | accaagaaga | gaaccacggg | aaccatctat | 180 |
| | atgatgaatg | tggcattagt | ggacttgata | tttataatga | ctttaccctt | tcgaatgttt | 240 |
| | tattatgcaa | aagatgcatg | gccatttgga | gagtacttct | gccagattat | tggagctctc | 300 |
| | acagtgtttt | acccaagcat | tgcctttatgg | cttcttgctt | ttattagtgc | tgacagatac | 360 |
| | atggccattg | tacagccgaa | gtacgccaaa | gaacttaaaa | acacgtgcaa | agccgtgctg | 420 |
| | gcgtgtgtgg | gagtctggat | aatgaccctg | accacgacca | cccctctgct | actgctctat | 480 |
| | aaagaccag | ataaagactc | cactcccgcc | acctgcctca | agatttctga | catcatctat | 540 |
| | ctaaaagctg | tgaacgtgct | gaacctcact | cgactgacat | tttttttctt | gattcctttg | 600 |
| | ttcatcatga | ttgggtgcta | cttggtcatt | attcataatc | tccttcacgg | caggacgtct | 660 |
| | aagctgaaac | ccaaagtcaa | ggagaagtcc | ataaggatca | tcatcacgct | gctggtgcag | 720 |
| | gtgctcgtct | gctttatgcc | cttccacatc | tgtttcgctt | tcctgatgct | gggaacgggg | 780 |
| | gagaacagtt | acaatccctg | gggagccttt | accaccttcc | tcatgaacct | cagcacgtgt | 840 |
| | ctggatgtga | ttctctacta | catcgtttca | aaacaatttc | aggctcgagt | cattagtgtc | 900 |
| | atgctatacc | gtaattacct | tcgaagcctg | cgcagaaaaa | gtttccgata | tggtagtcta | 960 |
| | aggtcactaa | gcaatataaa | cagtgaatg | tta | | | 993 |

<210> 1130
 <211> 1092
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | ccgcaagggt | ggccgacggg | cgaagaaacg | acaggctgaa | cagctgtccg | cagcaggaga | 120 |
| | gggcggggat | gcgggccgca | tggacacaga | ggaggccagg | ccggcgaaga | ggcccgctct | 180 |
| | cccacccctc | tgtggggagc | ggctcctgag | tgggaaagaa | gaaacaagga | aaattccagt | 240 |
| | cccagctaac | agatacacac | cattgaaaga | aaactggatg | aagatattta | ctcctattgt | 300 |
| | ggaacatttg | ggacttcaga | tacgctttta | cttggaatc | aaggaatgtg | aaatcaggac | 360 |
| | ttgtaagaac | caaggatgtt | agtgtctctg | caaaagcagt | gatttgtgaa | agcttttatt | 420 |
| | ctcggttttc | aggtggagga | tgcacttgcc | ctcatcaggt | tggatgacct | cttcctagag | 480 |

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|------|
| tcttttgaaa | ttacagatgt | taaacccta | aagggagacc | atctatccag | ggcaatagga | 540 |
| agaatcgctg | gcaaaggagg | aaaaacaaa | ttcaccatag | agaatgtgac | acggacaagg | 600 |
| atagttttgg | ctgatgtgaa | agttcacatc | cttggctcct | tccaaaatat | caagatggca | 660 |
| agaactgcca | tttgcaacct | aatcttggga | aatcctcctt | ccaaggttta | tggcaatatt | 720 |
| cgagctgtgg | ctagcagatc | agcagatcga | ttctgatttc | aagtcagaga | ctttttatct | 780 |
| tgccttttga | ctctggtgaa | aaatacttta | cagtggctcg | tcacaagaaa | ccatctgaac | 840 |
| aatttcagtc | atttgaagct | ccgtcccttc | ttccattctc | agccagaagc | ataaacagaa | 900 |
| aagaaagatt | tagaggattc | acactcaaca | ggtttttagga | tatttatatc | aaaaattgat | 960 |
| tgttatctta | cacattaggt | ataatttatc | atttatctga | aatcacatgt | agcagattgc | 1020 |
| atagtcttgt | aatcctctca | gagggaaact | tcttgtctaa | acagctctat | atggatttat | 1080 |
| cctccatatt | cc | | | | | 1092 |

<210> 1131
 <211> 5189
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| gtgtctagcc | tggatgctg | ggttgagcc | ctgcttgtg | tggcgctcca | cagtcacccg | 120 |
| gctgaagaag | acctgttga | ctggatcttc | tcgggttttc | tttcagatat | tgttttgtat | 180 |
| ttacccatga | agacattggt | ttttggactc | tgcaaataag | acatttcaaa | gatgagtga | 240 |
| aaaaaattgg | aaacaactgc | acagcagcgg | aaatgtcctg | aatggatgaa | tgtgcagaat | 300 |
| aaaagatgtg | ctgtagaaga | aagaaaggca | tgtgttcgga | agagtgtttt | tgaagatgac | 360 |
| ctccccctct | tagaattcac | tggatccatt | gtgtatagtt | acgatgctag | tgattgctct | 420 |
| ttcctgtcag | aagatattag | catgagtcta | tcagatgggg | atgtggtggg | atttgacatg | 480 |
| gagtggccac | cattatacaa | tagagggaaa | cttggcaaag | ttgcactaat | tcagttgtgt | 540 |
| gtttctgaga | gcaaagtgtt | cttgttccac | gtttcttcca | tgtcagtttt | tcccaggga | 600 |
| ttaaaaatgt | tgcttgaaaa | taaagcagtt | aaaaaggcag | gtgtaggaat | tgaaggagat | 660 |
| cagtggaaac | ttctacgtga | ctttgatatc | aaattgaaga | attttgtgga | gttgacagat | 720 |
| gttgccaata | aaaagctgaa | atgtacagag | acctggagcc | ttaacagtct | ggttaaacac | 780 |
| ctcttaggta | aacagctcct | gaaagacaag | tctatccgct | gtagcaattg | gagtaaattt | 840 |
| cctctcactg | aggaccagaa | actgtatgca | gccactgatg | cttatgctgg | ttttattatt | 900 |
| taccgaaatt | tagagatttt | ggatgatact | gtgcaaaggt | ttgctataaa | taaagaggaa | 960 |
| gaaatcctac | ttagcgacat | gaacaaacag | ttgacttcaa | tctctgagga | agtgatggat | 1020 |
| ctggctaagc | atcttcctca | tgctttcagt | aaattggaaa | accacggag | ggtttctatc | 1080 |
| ttactaaagg | atatttcaga | aaatctatat | tcactgagga | ggatgataat | tgggtctact | 1140 |
| aacattgaga | ctgaactgag | gccagcaat | aatttaaact | tattatcctt | tgaagattca | 1200 |
| actactgggg | gagtacaaca | gaaacaaatt | agagaacatg | aagttttaat | tcacgttgaa | 1260 |
| gatgaaacat | gggacccaac | acttgatcat | ttagctaaac | atgatggaga | agatgtactt | 1320 |
| ggaaataaag | tggaaagagc | ttgtttgatg | tcgttagata | ttacagaaca | tgaactccaa | 1440 |
| atatttggaac | agcagtctca | ggaagaatat | cttagtgata | ttgcttataa | atctactgag | 1500 |
| catttatctc | ccaatgataa | tgaaaacgat | acgtcctatg | taattgagag | tgatgaagat | 1560 |
| ttagaaatgg | agatgcttaa | gcatttatct | cccaatgata | atgaaaacga | tacgtcctat | 1620 |
| gtaattgaga | gtgatgaaga | tttagaaatg | gagatgctta | agtctttaga | aaacctcaat | 1680 |
| agtggcacgg | tagaaccaac | tcattctaaa | tgcttaaaaa | tggaaagaaa | tctgggtcctt | 1740 |

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| cctactaaag | aagaagaaga | agatgatgaa | aatgaagcta | atgaagggga | agaagatgat | 1800 |
| gataaggact | ttttgtggcc | agcacccaat | gaagagcaag | ttacttgcct | caagatgtac | 1860 |
| tttggccatt | ccagttttta | accagttcag | tggaaagtga | ttcattcagt | attagaagaa | 1920 |
| agaagagata | atgttgctgt | catggcaact | ggatatggaa | agagtttgtg | cttccagtat | 1980 |
| ccacctgttt | atgtaggcaa | gattggcctt | gttatctctc | cccttatttc | tctgatggaa | 2040 |
| gaccaagtgc | tacagcttaa | aatgtccaac | atcccagctt | gcttccttgg | atcagcacag | 2100 |
| tcagaaaatg | ttctaacaga | tattaaatta | ggtaaatacc | ggattgtata | cgtaactcca | 2160 |
| gaatactgtt | caggtaacat | gggcctgctc | cagcaacttg | aggctgatat | tggtatcacg | 2220 |
| ctcattgctg | tggatgaggc | tcactgtatt | tctgagtggg | ggcatgattt | tagggattca | 2280 |
| ttcaggaagt | tgggctccct | aaagacagca | ctgccaatgg | ttccaatcgt | tgcacttact | 2340 |
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| cagatcacct | gtactgggtt | tgatcgacca | aacctgtatt | tagaagttag | gcgaaaaaca | 2460 |
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| cattctagca | gatgtaggag | acaaatcatc | ttgtctcatt | ttgaggacaa | acaagtacaa | 3000 |
| aaagcctcct | tgggaattat | gggaactgaa | aatgctgtg | ataattgcag | gtccagattg | 3060 |
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| actgagggat | tcttggtaga | agtttctcgg | tataacaaat | ttatgaagat | ttgcgccctt | 3360 |
| acgaaaaagg | gtagaaattg | gcttcataaa | gctaatacag | aatctcagag | cctcatcctt | 3420 |
| caagctaattg | aagaattgtg | tccaaagaag | tttcttctgc | ctagttcgaa | aactgtatct | 3480 |
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| caaacaaata | gtgttcagac | agacctcttt | tcaagtacaa | aacctcaaga | agaacagaag | 3960 |
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| cccgtcaact | cagatatgag | taaaattagc | ctaatacaga | tgtagtttcc | tgaaaacatt | 4260 |
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| caaccttcat | gtgatgtcaa | caaaaggaga | tgttttcccg | gttctgaaga | gatctgttca | 4380 |

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| agttctaaga | gaagcaagga | agaagtaggc | atcaatactg | agacttcac | tgcagagaga | 4440 |
| aagagacgat | tacctgtgtg | gtttgccaaa | ggaagtgata | ccagcaagaa | attaatggac | 4500 |
| aaaacgaaaa | ggggaggtct | ttttagttaa | gctggcaatt | accagaacaa | ttatgtttct | 4560 |
| tgctgtatta | taagaggata | gctatatatt | atttctgaag | agtaaggagt | agtatttttg | 4620 |
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| gccttcogca | attcatgtag | tttctgggtc | ttctgggagc | ctacgtgagt | acatcaccta | 4740 |
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| aagaagttct | taaatacggt | gttaaatggt | attagttgac | cagggcagtg | aaaatgaaac | 5040 |
| cgcatttttg | gtgccattaa | atagggaaaa | aacatgtaaa | aaatgtaaaa | tggagaccaa | 5100 |
| ttgcactagg | caagtgtata | ttttgtattt | tatatacaat | ttctattatt | tttcaagtaa | 5160 |
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<210> 1132
 <211> 13500
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 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
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| gaggcaagag | cacaaagcgc | ccacctattc | accgaagagc | atgtatataa | cttagggcct | 11460 |
| tccatcctta | aacaacagga | ccttccttgc | tcttacggaa | aaggaaacag | gttcagagac | 11520 |
| gttaattcat | tgccaaagtc | acacagataa | tgggtccagc | gaagagtgg | gtccgagccc | 11580 |
| aaggcagcag | gcctttggcc | actgcagtg | taaacagcac | agctggtgtg | gaagtcgggt | 11640 |
| gctgagtcct | gggtacctgg | actcgagg | aagctggctg | cagggggaag | gggctgcgca | 11700 |
| gttggtgatg | tacctgtcgt | ctgctggggg | gcgtgcgggt | ggacacagtc | ccccggcctg | 11760 |
| gggagcctcg | tgggagaatt | aagagttact | ccgggcca | tggccggagt | tgctcagatct | 11820 |
| ggcagcgtct | tcgctggggc | tccagggagc | tgctgctggg | gtggaagctc | tcacactctt | 11880 |
| tctccacgtg | ccctttccag | ttccctgaca | tcagtgagtt | ctgcgaggcc | atggccaacg | 11940 |
| ccgggaagac | cgtaattgtg | gctgcactgg | atgggacctt | ccagaggaag | gtaaggcgtc | 12000 |

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|-------|
| tgatccaggt | ctggagctgg | gattgaggag | ggcaagaggg | ttctggatgg | gcacagagac | 12060 |
| accagctctg | ggtgaccagg | gctcagccac | cacaggggta | cggccgagct | gctcaggctt | 12120 |
| ggctgagcca | agggactcca | tggtctgtgc | agactgcgtg | ccatctgttg | tggcagggtgc | 12180 |
| tttgaattgg | caaagggaca | gagccgggca | tggtgctctg | gggggtgggg | gaaggactaa | 12240 |
| ggtcagagca | aactctcctg | gcttcagtag | ttgtgaatca | gaggggttaa | aagaaaaacc | 12300 |
| cacctggtaa | ggtgctgagc | gccctctgtc | tttccatggg | agcacagcca | tttggggcca | 12360 |
| tcctgaacct | ggtgccgctg | gccgagagcg | tggtgaagct | gacggcgggtg | tgcattggagt | 12420 |
| gcttcgggga | agccgcctat | accaagaggg | tcggcacaga | gaaggaggta | gctccacctg | 12480 |
| ccttcctctg | aggccggcgg | ggtgggggta | tggtctctgc | tccttcctgt | cctggccctt | 12540 |
| cacccatccc | ctgtccctgc | ggccagggtc | aggtgattgg | gggagcagac | aagtaccact | 12600 |
| ccgtgtgtcg | gctctgtctac | ttcaagaagg | cctcaggcca | gcctgccggg | ccggacaaca | 12660 |
| aagagaactg | cccagtgccca | ggaaagccag | gggaagccgt | ggctgccagg | aagctctttg | 12720 |
| ccccacagca | gattctgcaa | tgcagccctg | ccaactgagg | gacctgcaag | ggccgcccgc | 12780 |
| tccttcctctg | ccactgccgc | ctactggacg | ctgccctgca | tgctgcccag | ccactccagg | 12840 |
| aggaagtcgg | gaggcgtgga | gggtgaccac | accttggcct | tctgggaact | ctcctttgtg | 12900 |
| tggtgcccc | acctgccgca | tgctccctcc | tctcctaccc | actggtctgc | ttaaagcttc | 12960 |
| cctctcagct | gctgggacga | tcgcccaggc | tggagctggc | ccgcttgggt | ggcctgggat | 13020 |
| ctggcacact | ccctctcctt | ggggtgaggg | acagagcccc | acgtgtttga | catcagcctg | 13080 |
| cttcttcccc | tctgcggtt | tcactgtctga | gtttctgttc | tccttgggaa | gcctgtgccca | 13140 |
| gcacctttga | gccttggccc | acactgaggg | ttaggcctct | ctgcctggga | tgggctccca | 13200 |
| ccctccctctg | aggatggcct | ggattcacgc | cctcttgttt | ccttttgggc | tcaaagccct | 13260 |
| tcctacctct | ggtgatgggt | tccacaggaa | caacagcatc | tttcaccaag | atgggtggca | 13320 |
| ccaaccttgc | tgggacttgg | atcccagggg | cttatctctt | caagtgtgga | gagggcaggg | 13380 |
| tccacgcctc | tgctgtagct | tatgaaatta | actaattgaa | aattcactgg | ttggtggacg | 13440 |
| cacatttctc | tttcacctgg | gtttccctgg | gtctcatgga | cagctccaac | ttgatttggg | 13500 |

<210> 1133
 <211> 1452
 <212> DNA
 <213> Homo sapiens

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|------------|------------|------------|------------|------------|-------------|-------------|-----|
| <400> 1133 | ttggtttctg | ctgggtgtag | gtccttggct | ggtcgggctc | cggtgttctg | cttctccccg | 60 |
| | ctgagctgct | gcctggtgaa | gaggaagcca | tggcgctccg | agtcaccagg | aactcgaaaa | 120 |
| | ttaatgctga | aaataaggcg | aagatcaaca | tggcaggcgc | aaagcgcggt | cctacggccc | 180 |
| | ctgctgcaac | ctccaagccc | ggactgaggg | caagaacagc | tcttggggac | attggtaaca | 240 |
| | aagtcagtga | acaactgcag | gccaaaatgc | ctatgaagaa | ggaagcaaaa | ccttcagcta | 300 |
| | ctggaaaagt | cattgataaa | aaactaccaa | aacctcttga | aaaggtacct | atgctgggtgc | 360 |
| | cagtgccagt | gtctgagcca | gtgccagagc | cagaacctga | gccagaacct | gagcctgtta | 420 |
| | aagaagaaaa | actttcgcct | gagcctatct | tggttgatac | tgccctctcca | agcccaatgg | 480 |
| | aaacatctgg | atgtgcccct | gcagaagaag | acctgtgtca | ggctttctct | gatgtaattc | 540 |
| | ttgcagtaaa | tgatgtggat | gcagaagatg | gagctgatcc | aaacctttgt | agtgaatatg | 600 |
| | tgaagatat | ttatgcttat | ctgagacaac | ttgaggaaga | gcaagcagtc | agaccaaata | 660 |
| | acctactggg | tcgggaagtc | actggaaaca | tgagagccat | cctaattgac | tggctagtag | 720 |
| | aggttcaaat | gaaattcagg | ttgttgacag | agaccatgta | catgactgtc | tccattattg | 780 |
| | atcggttcat | gcagaataat | tgtgtgccc | agaagatgct | gcagctgggt | ggtgtcactg | 840 |
| | ccatgtttat | tgcaagcaaa | tatgaagaaa | tgtaccctcc | agaaattggg | gactttgtct | 900 |
| | ttgtgactga | caacacttat | actaagcacc | aatcagaca | gatggaaatg | aagattctaa | 960 |

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| gagctttaa | ctttggtctg | ggtcggcctc | tacctttgca | cttccttcgg | agagcatcta | 1020 |
| agattggaga | ggttgatgtc | gagcaacata | ctttggccaa | atacctgatg | gaactaacta | 1080 |
| tgttggaacta | tgacatgggtg | cactttcctc | cttctcaaat | tgcagcagga | gctttttgct | 1140 |
| tagcactgaa | aattctggat | aatgggtgaat | ggacaccaac | tctacaacat | tacctgtcat | 1200 |
| atactgaaga | atctcttctt | ccagttatgc | agcacctggc | taagaatgta | gtcatggtaa | 1260 |
| atcaaggact | tacaaagcac | atgactgtca | agaacaagta | tgccacatcg | aagcatgcta | 1320 |
| agatcagcac | tctaccacag | ctgaattctg | cactagttca | agatttagcc | aaggctgtgg | 1380 |
| caaaggtgta | acttgtaaac | ttgagttgga | gtactatact | ttacaaacta | aaattggcac | 1440 |
| atgtgcatct | gt | | | | | 1452 |

<210> 1134
 <211> 2351
 <212> DNA
 <213> Homo sapiens

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|------------|------------|------------|-------------|-------------|------------|-------------|------|
| <400> 1134 | gcgcggcggc | ggacctcggg | ttgccctcgg | tccgagtgat | ccctggctgc | ttccttagcc | 60 |
| | ctcccgcctt | cggcattggg | gtccccgcgt | ccccggggcc | tccaggcggg | aaagcgcggg | 120 |
| | ggctttgcgg | ggccttgagc | gcctgggtgtg | ggaggtggtc | gagcccagcc | accctcccc | 180 |
| | gcggcggcgc | gaggtctctc | ggccagaaca | cgtggatgcc | caccaccac | tgagcctcat | 240 |
| | ggaggtggta | acatttgggc | atgtggctgt | gcacttctct | cgggaggagt | ggcagtgtct | 300 |
| | ggaccctggc | cagagggccc | tctacagggg | agtgatgctg | gagaaccaca | gcagtgtggc | 360 |
| | tggactagca | ggattccttg | ttttcaagcc | tgagctgac | tctcggctgg | agcagggaga | 420 |
| | agagccatgg | gtcctcgacc | tgccagggagc | agaggggaca | gaggcaccaa | ggacctccaa | 480 |
| | gacagattct | acgattagga | ctgaaaatga | gcaggcctgt | gaggacatgg | acatcctaaa | 540 |
| | atcagaatcc | tatgggacag | tggtcagaat | ctccccacag | gactttcctc | agaatcctgg | 600 |
| | ctttggagac | gtttctgatt | ctgaggtctg | gttagacagt | catctgggca | gtccccggct | 660 |
| | gaaagtgaca | ggctttacct | tccaaaataa | ctgtttgaat | gaggagactg | tggttcccaa | 720 |
| | gaccttcacc | aaggacgcac | cccagggatg | taaggagctg | ggaagcagcg | gcctggattg | 780 |
| | tcagcctctt | gaaagtcagg | gagagagtgc | ggaagggatg | tcccagagat | gcgaggagtg | 840 |
| | tggcaaaggc | atcagagcca | cttcagatat | cgctctgcat | tgggaaatta | atacacagaa | 900 |
| | aattagcaga | tgtcaagaat | gccccaaaaa | gttatctgac | tgcttgacag | ggaaacatac | 960 |
| | aaataactgc | catggagaga | agccgtacga | atgtgcagag | tgtgggaaag | tcttcaggct | 1020 |
| | ctgctcgcag | cttaatcagc | atcagagaat | ccacacggga | gagaaaccct | ttaaattgcac | 1080 |
| | tgagtgtgga | aaagccttcc | gcctgagctc | aaaacttatt | cagcatcaaa | gaatccacac | 1140 |
| | tggggagaag | ccctacagat | gtgaggaatg | tggaaaagct | tttggtcaga | gctcaagcct | 1200 |
| | catccaccat | cagagaatcc | acacaggaga | gaggccctat | ggttgtcgtg | agtgtgggaa | 1260 |
| | agccttcagc | cagcagtcgc | agctggttag | acaccagaga | actcacactg | gggagaggcc | 1320 |
| | ctacccttgc | aaggagtgtg | ggaaggcctt | cagccagagc | tccaccctag | cccagcatca | 1380 |
| | aaggatgcat | actggggaga | aagctcaaat | tctaaaagcc | tcagacagtc | caagccttgt | 1440 |
| | tgcacatcag | agaattcacg | ctgtagagaa | accatttaag | tgtgatgagt | gtgggaaagc | 1500 |
| | ttttaggtgg | atctctcgcc | tgagtcagca | tcagctgatt | cacactggag | agaagcctta | 1560 |
| | taaatgcaac | aagtgtacaa | aagccttttg | ttgtagttca | cggcttattc | gccatcagag | 1620 |
| | aactcacact | ggagaaaaac | cattttaaag | tgatgagtgt | ggcaaaggct | ttgttcaggg | 1680 |
| | ctcacacctt | attcagcatc | agcgaatcca | cactggagag | aaaccctatg | tgtgtaatga | 1740 |
| | ctgtggaaaa | gccttcagtc | agagttccag | ccttattttac | catcagagaa | tccataaagg | 1800 |
| | agagaagccc | tacgaatgcc | tccaatgcgg | aaaagccttc | agtatgagca | cacagcttac | 1860 |

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|------------|-------------|------------|------------|------------|------------|------|
| aatacatcaa | agggttcaca | ctggagagag | gccctataaa | tgtaatgaat | gtgggaaagc | 1920 |
| cttcagtcaa | aactcaaccc | ttttccaaca | ccagataatt | catgcagggg | tgaagcccta | 1980 |
| tgagtgcagt | gagtgtggaa | aagccttcag | ccggagctca | tatcttattg | aacaccagag | 2040 |
| aatacacact | agggccccagt | ggttttacga | atatgggaat | gccctggaag | gtccacctt | 2100 |
| tgtgagccgt | aaaaaggtta | atactataaa | gaaactgcat | cagtgtgaag | actgtgagaa | 2160 |
| gatatttagg | tggcgttcac | acctaattat | acaccagaga | attcacaccg | gggagaagcc | 2220 |
| ttataaatgc | aatgactgtg | gcaaagcttt | taatcgtagc | tcaaggctta | cccagcatca | 2280 |
| aaaaattcac | atgggataga | ccacttacat | ataaatgtgt | atatatgtga | ataaacctat | 2340 |
| agccttaact | t | | | | | 2351 |

<210> 1135
 <211> 1523
 <212> DNA
 <213> Homo sapiens

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|------------|------------|-------------|------------|------------|-------------|------------|------|
| <400> 1135 | gggtcgatgg | gggagatgga | gcaactgcgt | caggaagcgg | agcagctcaa | gaagcagatt | 60 |
| gcagatgcca | ggaaagcctg | tgctgacgtt | actctggcag | agctggtgtc | tggcctagag | | 120 |
| gtggtgggac | gagtccagat | gcggacgcgg | cggacgttaa | ggggacacct | ggccaagatt | | 180 |
| tacgccatgc | actgggccac | tgattctaag | ctgctggtaa | gtgcctcgca | agatgggaag | | 240 |
| ctgatcgtgt | gggacagcta | caccaccaac | aaggtgcacg | ccatcccact | gcgctcctcc | | 300 |
| tgggtcatga | cctgtgccta | tgccccatca | gggaactttg | tggcatgtgg | ggggctggac | | 360 |
| aacatgtgtt | ccatctacaa | cctcaaattc | cgtgagggca | atgtcaaggt | cagccgggag | | 420 |
| ctttctgctc | acacaggtta | tctctcctgc | tgccgcttcc | tggatgacaa | caatattgtg | | 480 |
| accagctcgg | gggacaccac | gtgtgccttg | tgggacattg | agactgggca | gcagaagact | | 540 |
| gtatttgtgg | gacacacggg | tgactgcatg | agcctggctg | tgtctcctga | cttcaatctc | | 600 |
| ttcatttcgg | gggcctgtga | tgccagtgcc | aagctctggg | atgtgcgaga | ggggacctgc | | 660 |
| cgtcagactt | tactggcca | cgagtcggac | atcaacgcca | tctgtttctt | ccccaatgga | | 720 |
| gaggccatct | gcacgggctc | ggatgacgct | tcctgccgct | tgtttgacct | gcgggcagac | | 780 |
| caggagctga | tctgcttctc | ccacgagagc | atcatctgcg | gcatacgcgc | cgtggccttc | | 840 |
| tccctcagtg | gccgcctact | attcgtctgg | tacgacgact | tcaactgcaa | tgtctgggac | | 900 |
| tccatgaagt | ctgagcgtgt | gggcatcctc | tctggccacg | ataacagggg | gagctgcctg | | 960 |
| ggagtcacag | ctgacgggat | ggctgtggcc | acaggttcct | gggacagctt | cctcaaaatc | | 1020 |
| tggaactgag | gaggctggag | aaaggggaagt | ggaaggcagt | gaacacactc | agcagccccc | | 1080 |
| tgcccgacct | catctcattc | aggtgttctc | ttctatatct | cgggtgccat | tcccactaag | | 1140 |
| ctttctcctt | tgagggcagt | ggggagcatg | ggactgtgcc | tttgggaggg | agcatcaggg | | 1200 |
| acacaggggc | aaagaactgc | cccatctcct | cccatggcct | tccctcccca | cagtcctcac | | 1260 |
| agcctctccc | ttaatgagca | aggacaacct | gcccctcccc | agccctttgc | aggcccagca | | 1320 |
| gacttgagtc | tgaggcccca | ggccctagga | ttcctccccc | agagccacta | cctttgtcca | | 1380 |
| ggcctgggtg | gtatagggcg | tttggccctg | tgactatggc | tctggcacca | ctagggctcct | | 1440 |
| ggccctcttc | ttattcatgc | tttctccttt | ttctaccttt | ttttctctcc | taagacacct | | 1500 |
| gcaataaagt | gtagcaccct | ggt | | | | | 1523 |

<210> 1136
 <211> 1531
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1136 | agtcacagag | ggaacacaga | gcctagtgtg | aaacggacag | agacgagagg | ggcaagggag | 60 |
| gacagtggat | gacaggggaag | acgagtgggg | gcagagctgc | tcaggaccat | ggctgaggcc | | 120 |

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|------|
| atcacctatg | cagatctgag | gtttgtgaag | gctccccctga | agaagagcat | ctccagccgg | 180 |
| ttaggacagg | accagggggc | tgatgatgat | ggggaaatca | cctacgagaa | tgttcaagtg | 240 |
| cccgagtc | taggggtgcc | ctcaagcttg | gcttcttctg | tactagggga | caaagcagcg | 300 |
| gtcaagtcgg | agcagccaac | tgcgctcctg | agagccgtga | cgtcaccagc | tgtcggggcg | 360 |
| attctccct | gccgcacaac | ctgcctgcga | tacctcctgc | tcggcctgct | cctcacctgc | 420 |
| ctgctgtag | gagtgaccgc | catctgcctg | ggagtgcgct | atctgcaggt | gtctcagcag | 480 |
| ctccagcaga | cgaacagggt | tctggaagtc | actaacagca | gcctgaggca | gcagctccgc | 540 |
| ctcaagataa | cgagctggg | acagagtgc | gaggatctgc | aggggtccag | gagagagctg | 600 |
| gcgcagagtc | aggaagcact | acaggtggaa | cagagggctc | atcaggcggc | cgaagggcag | 660 |
| ctacaggcct | gccaggcaga | cagacagaag | acgaaggaga | ccttgcaaag | tgaggagcaa | 720 |
| cagaggagg | ccttgagca | gaagctgagc | aacatggaga | acagactgaa | gcccttcttc | 780 |
| acatgcggct | cagcagacac | ctgctgtccg | tcgggatgga | taatgcatca | gaaaagctgc | 840 |
| ttttacatct | cacttacttc | aaaaaattgg | caggagagcc | aaaaacaatg | tgaaactctg | 900 |
| tcttccaagc | tgccacatt | cagtgaat | tatccacaat | cacactctta | ctacttctta | 960 |
| aattcactgt | tgccaaatgg | tggttcagg | aattcatatt | ggactggcct | cagctctaac | 1020 |
| aaggattgga | agttgactga | tgatacacia | cgcactagga | cttatgctca | aagctcaaaa | 1080 |
| tgtaacaagg | tacataaaac | ttggtcatgg | tggaactagg | agtcagagtc | atgtagaagt | 1140 |
| tctcttccct | acatctgtga | gatgacagct | ttcaggtttc | cagattagga | cagtcctttg | 1200 |
| cactgagttg | acatcatgc | caacaagaac | ctgtgccccct | ccttcctaac | ctgaggcctg | 1260 |
| gggttctca | gaccatctcc | ttcattctgg | gcagtgccag | ccaccggctg | accacacct | 1320 |
| gacacttcca | gccagtctgc | tgctgctcc | ctcttctga | aactggactg | ttcctgggaa | 1380 |
| aagggtgaag | ccacctctag | aagggaactt | ggcctcccc | caagaacttc | ccatggtaga | 1440 |
| atgggggtggg | ggaggagggc | gcacgggctg | agcggatagg | ggcgggcccg | agccagccag | 1500 |
| gcagttttat | tgaaatcttt | ttaaataatt | g | | | 1531 |

<210> 1137
 <211> 2346
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|-------------|------------|------------|------------|------------|------|
| <400> 1137 | gcacgaggct | gcggcgggtc | cgggcccatg | aggcgacgaa | ggaggcggga | cggcttttac | 60 |
| | ccagccccgg | acttccgaga | cagggaagct | gaggacatgg | caggagtgtt | tgacatagac | 120 |
| | ctggaccagc | cagaggacgc | gggctctgag | gatgagctgg | aggagggggg | tcagttaaat | 180 |
| | gaaagcatgg | accatggggg | agttggacca | tatgaacttg | gcatggaaca | ttgtgagaaa | 240 |
| | tttgaaatct | cagaaactag | tgtgaacaga | gggccagaaa | aatcagacc | agaatgtttt | 300 |
| | gagctacttc | gggtacttgg | taaagggggc | tatggaaagg | tttttcaagt | acgaaaagta | 360 |
| | acaggagcaa | atactgggaa | aatatttgcc | atgaaggtgc | ttaaaaaggc | aatgatagta | 420 |
| | agaaatgcta | aagatacagc | tcatacaaaa | gcagaacgga | atattctgga | ggaagtaaag | 480 |
| | catcccttca | tcgtggattt | aatttatgcc | tttcagactg | gtggaaaact | ctacctcatc | 540 |
| | cttgagtatc | tcagtggagg | agaactattt | atgcagttag | aaagagaggg | aatatttatg | 600 |
| | gaagacactg | cctgctttta | cttggcagaa | atctccatgg | ctttggggca | tttacatcaa | 660 |
| | aaggggatca | tctacagaga | cctgaagccg | gagaatatca | tgcttaatca | ccaaggtcat | 720 |
| | gtgaaactaa | cagactttgg | actatgcaaa | gaatctattc | atgatggaac | agtcacacac | 780 |
| | acattttgtg | gaacaataga | atacatggcc | cctgaaatct | tgatgagaag | tgccacaaat | 840 |
| | cgtgctgtgg | attgggtggag | tttgggagca | ttaatgtatg | acatgctgac | tgaggacccc | 900 |
| | ccattcactg | gggagaatag | aaagaaaaca | attgacaaaa | tcctcaaagt | taaactcaat | 960 |
| | ttgcctccct | acctcacaca | agaagccaga | gatctgctta | aaaagctgct | gaaaagaaat | 1020 |

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|------|
| gctgcttctc | gtctgggagc | tggtcctggg | gacgctggag | aagttcaagc | tcatccattc | 1080 |
| tttagacaca | ttaactggga | agaacttctg | gctcgaaagg | tggagccccc | ctttaaacct | 1140 |
| ctgttgcaat | ctgaagagga | tgtaagtcag | tttgattcca | agtttacacg | tcagacacct | 1200 |
| gtcgacagcc | cagatgactc | aactctcagt | gaaagtgcc | atcaggtctt | tctgggtttt | 1260 |
| acatatgtgg | ctccatctgt | acttgaaagt | gtgaaagaaa | agttttcctt | tgaacccaaa | 1320 |
| atccgatcac | ctcgaagatt | tattggcagc | ccacgaacac | ctgtcagccc | agtcaaattt | 1380 |
| tctcctgggg | atttctgggg | aagaggtgct | tgggccagca | cagcaaattc | tcagacacct | 1440 |
| gtggaatacc | caatggaaac | aagtggcata | gagcagatgg | atgtgacaat | gagtggggaa | 1500 |
| gcatcggcac | cacttccaat | acgacagccg | aactctgggc | catacaaaaa | acaagctttt | 1560 |
| cccatgatct | ccaaacggcc | agagcacctg | cgtatgaatc | tatgacagag | caatgctttt | 1620 |
| aatgaattta | aggcaaaaag | gtggagaggg | agatgtgtga | gcatcctgca | aggtgaaaca | 1680 |
| agactcaaaa | tgacagtttc | agagagtcaa | tgtcattaca | tagaacactt | cggacacagg | 1740 |
| aaaaataaac | gtggatttta | aaaaatcaat | caatggtgca | aaaaaaaaact | taaagcaaaa | 1800 |
| tagtattgct | gaactcttag | gcacatcaat | taattgattc | ctcgcgacat | ctttctcaac | 1860 |
| cttatcaagg | attttcatgt | tgatgactcg | aaactgacag | tattaagggg | aggatgttgc | 1920 |
| tctgaatcac | tgtgagtctg | atgtgtgaag | aagggtatcc | tttcattagg | caagtacaaa | 1980 |
| ttgcctataa | tacttgcaac | taaggacaaa | ttagcatgca | agcttgggtca | aacttttccc | 2040 |
| aggcaaaatg | ggaaggcaaa | gacaaaagaa | acttaccaat | tgatgtttta | cgtgcaaaca | 2100 |
| acctgaatct | tttttttata | taaatatata | tttttcaaat | agatttttga | ttcagctcat | 2160 |
| tatgaaaaac | atcccaaact | ttaaaatgcg | aaattattgg | ttggtgtgaa | gaaagccaga | 2220 |
| caacttctgt | ttcttctctt | ggtgaaataa | taaaatgcaa | atgaatcatt | gttaacacag | 2280 |
| ctgtggctcg | tttgagggat | tgggggtggac | ctgggggttta | ttttcagtaa | cccagctgcg | 2340 |
| gagcct | | | | | | 2346 |

<210> 1138
 <211> 1936
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|------|
| <400> 1138 | | | | | | |
| cctcgctagt | ggcgggcatg | ataacacacg | ccggagggtc | gcacgcgggt | tccagttgtg | 60 |
| attgctggag | ttgtgtattg | ccaggaggct | ctccgagatt | ggggtcgggt | cactgcctca | 120 |
| tccaccggag | cgatggcggt | tctccgaagc | atgtggggcg | tgctgagtgc | cctgggaagg | 180 |
| tctggagcag | agctgtgcac | cggctgtgga | agtcgactgc | gtccccctt | cagttttgtg | 240 |
| tatttaccga | ggtgggtttt | atctgtcttg | gcaagttgtc | caaagaaacc | tgtaagttct | 300 |
| taccttcgat | tttctaagaa | acaactaccc | atattttaag | ctcagaaccc | agatgcaaaa | 360 |
| actacagaac | taattagaag | aattgccag | cgttggaggg | aacttctga | ttcaaagaaa | 420 |
| aaaatatatc | aagatgctta | tagggcggag | tggcaggtat | ataaagaaga | gataagcaga | 480 |
| tttaagaac | agctaactcc | aagtcagatt | atgtctttgg | aaaaagaaat | catggacaaa | 540 |
| catttaaaaa | ggaaagctat | gacaaaaaaa | aaagagttaa | cactgcttgg | aaaacccaaa | 600 |
| agacctcggt | cagcttataa | cgtttatgta | gctgaaagat | tccaagaagc | taaggggtgat | 660 |
| tcaccgcagg | aaaagctgaa | gactgtaaag | gaaaactgga | aaaatctgtc | tgactctgaa | 720 |
| aaggaattat | atattcagca | tgctaaagag | gacgaaactc | gttatcataa | tgaaatgaag | 780 |
| tcttggaag | aacaaatgat | tgaagttgga | cgaaaggatc | ttctacgtcg | cacaataaag | 840 |
| aaacaacgaa | aatatggtgc | tgaggagtgt | taaaagtaga | agattgagat | gtgttcacaa | 900 |
| tggataggca | caggaaacca | gttaggtctc | aatacctgaa | gctatcgtaa | aattaagaaa | 960 |
| ggataaagtt | ggtaaacctt | ttatatattag | tatcttttta | ttcagctcat | ggacttctgc | 1020 |

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|------|
| cagcataata | cttgcttttg | aaaaccaga | taaaggttca | tgcaaacttt | attttgtggt | 1080 |
| taggaactac | tgaggatcag | agtaatccaa | gcaaagtga | atcattttac | ctttgacaaa | 1140 |
| ggtaaactcag | actatgaagt | tttttttata | caggatgatg | actatggaaa | gagtactctt | 1200 |
| gtttccttat | attatggagg | caggagtttc | gttttcaaaa | ttgttacaaa | ttgtagaagc | 1260 |
| cacggtgttc | tgtgatataa | gtgtgtgttt | ttcataaagc | aggcagaact | catctaggta | 1320 |
| aattacagtt | cctaggtata | attcacattg | tattcagagt | tgatggttgt | acataaagt | 1380 |
| gattgctggt | tttagttgca | actttgtata | aaagggactg | agaaatttat | aaactttttt | 1440 |
| cttactgtct | tttttctaaa | gtaaaaacaa | agaaattatg | tgccagattt | atgcatatta | 1500 |
| ttttatgttg | catagaataa | aatttttaaat | ctttaatttt | acatttccta | aatataattt | 1560 |
| aagacgaaac | atttgttcta | tagcttttcc | ctttttttta | gtaaggaatt | ttattttttt | 1620 |
| ctgaattatt | ttctctcgtg | agtatattga | tccagaaaga | aaacttgat | tatgtgtgtt | 1680 |
| ttaaaatgag | aaatctaaaa | aacgaaaagt | ctccaaagtc | tctggaattt | gaaacacttt | 1740 |
| gcataacgta | taaaagcctg | tttaagagac | agccaactat | ggcctgtgga | tcaaattccag | 1800 |
| cctgctgcct | gctttttatg | gcctgtgagc | taggaattgt | gtttataatt | ttaaatgttt | 1860 |
| ttttttaaag | acttttatga | tacttgaaaa | ttaacatgaa | tatttagtgt | tcataaataa | 1920 |
| agtttgttga | aacaca | | | | | 1936 |

<210> 1139
 <211> 1764
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|------|
| <400> 1139 | | | | | | |
| ccgggatgcg | aaggagcggg | acaccatgaa | ggaggacggc | ggcgcgaggt | tctcggtcgt | 60 |
| ctccaggaag | aggaaggcaa | acgtgaccgt | ttttttgcag | gatccagatg | aagaaatggc | 120 |
| caaaatcgac | aggacggcga | gggaccagtg | tgggagccag | ccttgggaca | ataatgcagt | 180 |
| ctgtgcagac | ccctgctccc | tgatccccac | acctgacaaa | gaagatgatg | accgggttta | 240 |
| cccaaactca | acgtgcaagc | ctcggattat | tgcaccatcc | agaggctccc | cgctgcctgt | 300 |
| actgagctgg | gcaaatagag | aggaagtctg | gaaaatcatg | ttaaacaagg | aaaagacata | 360 |
| cttaagggat | cagcactttc | ttgagcaaca | ccctcttctg | cagccaaaaa | tgcgagcaat | 420 |
| tcttctggat | tgggttaatg | aggtgtgtga | agtctataaa | cttcacaggg | agacctttta | 480 |
| cttggcacia | gatttctttg | accggtatat | ggcgacacaa | gaaaatgttg | taaaaactct | 540 |
| tttacagctt | attgggattt | catctttatt | tattgcagcc | aaacttgagg | aatcttatcc | 600 |
| tccaaagtgg | caccagtgtg | cgtatgtgac | agatggagct | tgttcaggag | atgaaattct | 660 |
| caccatggaa | ttaatgatta | tgaaggccct | taagtggcgt | ttaagtcccc | tgactattgt | 720 |
| gtcctgggctg | aatgtataca | tgcaggttgc | atatctaaat | gacttacatg | aagtgtctact | 780 |
| gccgcagtat | ccccagcaaa | tctttataca | gattgcagag | ctgttggatc | tctgtgtcct | 840 |
| ggatgttgac | tgccttgaat | ttccttatgg | tatacttgct | gcttcggcct | tgtatcattt | 900 |
| ctcgtcatct | gaattgatgc | aaaaggtttc | agggatcatg | tgggtgcgaca | tagagaactg | 960 |
| tgtcaagtgg | atggttccat | ttgccatggt | tataaggagg | acggggagct | caaaactgaa | 1020 |
| gcacttcagg | ggcgtcgtg | atgaagatgc | acacaacata | cagacccaca | gagacagctt | 1080 |
| ggatttgctg | gacaaagccc | gagcaaagaa | agccatgttg | tctgaacaaa | atagggcttc | 1140 |
| tcctctcccc | agtgggctcc | tcaccccgcc | acagagcggg | aagaagcaga | gcagcggggc | 1200 |
| ggaaatggcg | tgaccacccc | atccttctcc | accaaagaca | gttgccggcg | tgctccacgt | 1260 |
| tctcttctgt | ctgttgcagc | ggaggcgtgc | gtttgctttt | acagatatct | gaatggaaga | 1320 |
| gtgtttcttc | cacaacagaa | gtatttctgt | ggatggcatc | aaacagggca | aagtgttttt | 1380 |
| tattgaatgc | ttataggttt | tttttaataa | agtgggtcaa | gtacaccagc | cacctccaga | 1440 |
| caccagtgcg | tgctcccgat | gctgctatgg | aaggtgctac | ttgacctaag | ggactcccac | 1500 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| aacaacaaaa | gcttgaagct | gtggaggcgc | acggtggcgt | ggctctcctc | gcaggtgttc | 1560 |
| tgggctccgt | tgtaccaagt | ggagcaggtg | gttgcgggca | agcgttgtgc | agagcccata | 1620 |
| gccagctggg | cagggggctg | ccctctccac | attatcagtt | gacagtgtac | aatgcctttg | 1680 |
| atgaactgtt | ttgtaagtgc | tgctatatct | atccattttt | taataaagct | aatactgttt | 1740 |
| cttttagagca | cactggcggg | tcgt | | | | 1764 |

<210> 1140
 <211> 865
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 1140 | | | | | | |
| gaattccgga | gttccgggcg | cgcgcgacgt | cagtttgagt | tctgtgttct | ccccgcccgt | 60 |
| gtcccgcccg | accgcgccc | gcgatgctgg | cgctgcgctg | cggtcccgcc | tggctcggcc | 120 |
| tgctctccgt | cccgcgctcc | gtgccgctgc | gcctccccgc | ggcccgcgcc | tgcagcaagg | 180 |
| gctccggcga | cccgtcctct | tcctcctcct | ccgggaaccc | gctcgtgtac | ctggacgtgg | 240 |
| acgccaacgg | gaagccgctc | ggccgcgtgg | tgctggagct | gaaggcagat | gtcgtcccaa | 300 |
| agacagctga | gaacttcaga | gccctgtgca | ctggtgagaa | gggcttcggc | tacaaaggct | 360 |
| ccaccttcca | caggggtgatc | ccttccttca | tgtgccaggc | gggcgacttc | accaaccaca | 420 |
| atggcacagg | cggaagtcc | atctacggaa | gccgctttcc | tgacgagaac | tttactactga | 480 |
| agcacgtggg | gccaggtgtc | ctgtccatgg | ctaagtctgg | tcctaacacc | aacggctccc | 540 |
| agttcttcat | ctgcaccata | aagacagact | ggttggtatg | caagcatggt | gtgttcgggtc | 600 |
| acgtcaaaga | gggcatggac | gtcgtgaaga | aaatagaatc | tttcggctct | aagagtggga | 660 |
| ggacatccaa | gaagattgtc | atcacagact | gtggccagtt | gagctaactc | gtggccaggg | 720 |
| tgctggcatg | gtggcagctg | caaagtgtcc | tgcacccagg | tggccgcgtt | gggctgtcag | 780 |
| ccaaggtgcc | tgaaacgata | cgtgtgcccc | ctccactgtc | acagtgtgcc | tgaggaaggc | 840 |
| tgctagggat | gttagacgga | attcc | | | | 865 |

<210> 1141
 <211> 1332
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|------|
| <400> 1141 | | | | | | |
| cggactagac | ctggtcagac | acaatgtttg | cactcttggt | tctggtgact | gtggccctgg | 60 |
| catctgctca | tcatggtggt | gagcactttg | aaggcgagaa | ggtgttccgt | gttaacgttg | 120 |
| aagatgaaaa | tcacattaac | ataatccgcg | agttggccag | cacgaccag | attgacttct | 180 |
| ggaagccaga | ttctgtcaca | caaatacaac | ctcacagtac | agttgacttc | cgtgttaaag | 240 |
| cagaagatac | tgtcactgtg | gagaatgttc | taaagcagaa | tgaactacaa | tacaagggtac | 300 |
| tgataagcaa | cctgagaaat | gtggtggagg | ctcagtttga | tagccgggtt | cgtgcaacag | 360 |
| gacacagtta | tgagaagtac | aacaagtggg | aaacgataga | ggcttggact | caacaagtgc | 420 |
| ccactgagaa | tccagccctc | atctctcgca | gtgttatcgg | aaccacattt | gagggacgcg | 480 |
| ctattttacct | cctgaagggt | ggcaaagctg | gacaaaataa | gcctgccatt | ttcatggact | 540 |
| gtggtttcca | tgccagagag | tggatttctc | ctgcattctg | ccagtgggtt | gtaagagagg | 600 |
| ctgttcgtac | ctatggacgt | gagatccaag | tgacagagct | tctcgacaag | ttagactttt | 660 |
| atgtcctgcc | tgtgctcaat | attgatggct | acatctacac | ctggaccaag | agccgatttt | 720 |
| ggagaaaagac | tcgctccacc | catactggat | ctagcattgg | cacagacccc | aacagaaatt | 780 |
| ttgatgctgg | ttggtgtgaa | attggagcct | ctcgaaaccc | ctgtgatgaa | acttactgtg | 840 |
| gacctgccgc | agagtctgaa | aaggagacca | aggccctggc | tgatttcac | cgcaacaaac | 900 |
| tctcttccat | caaggcatat | ctgacaatcc | actcgtactc | ccaaatgatg | atctaccctt | 960 |
| actcatatgc | ttacaaactc | ggtgagaaca | atgctgagtt | gaatgccctg | gctaaagcta | 1020 |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| ctgtgaaaga | acttgccctca | ctgcacggca | ccaagtacac | atatggcccg | ggagctacaa | 1080 |
| caatctatcc | tgctgctggg | ggctctgacg | actgggctta | tgaccaagga | atcagatatt | 1140 |
| ccttcacctt | tgaacttcga | gatacaggca | gatatggctt | tctccttcca | gaatcccaga | 1200 |
| tccgggctac | ctgcgaggag | accttcctgg | caatcaagta | tggtgccagc | tacgtcctgg | 1260 |
| aacacctgta | ctagttgaga | aagctgatgg | ccttgtttca | aaattctcat | ttttcatttc | 1320 |
| ttttctttct | tg | | | | | 1332 |

<210> 1142
 <211> 890
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1142 | ggcggaccga | agaacgcagg | aagggggccg | gggggacccg | cccccgccg | gccgcagcca | 60 |
| | tgaactccaa | cgtggagaac | ctacccccgc | acatcatccg | cctggtgtac | aaggagggtga | 120 |
| | cgacactgac | cgcagaccca | cccgatggca | tcaaggctct | tccaacagag | gaggacctca | 180 |
| | ccgacctcca | ggtcaccatc | gagggccctg | aggggacccc | atatgctgga | ggtctgttcc | 240 |
| | gcatgaaact | cctgctgggg | aaggacttcc | ctgcctcccc | acccaagggc | tacttcctga | 300 |
| | ccaagatctt | ccacccgaac | gtgggcgcca | atggcgagat | ctgcgtcaac | gtgctcaaga | 360 |
| | gggactggac | ggctgagctg | ggcatccgac | acgtactgct | gaccatcaag | tgctgctga | 420 |
| | tccaccctaa | ccccgagtct | gcactcaacg | aggaggcggg | ccgcctgctc | ttggagaact | 480 |
| | acgaggagta | tgcggtctcg | gcccgtctgc | tcacagagat | ccacgggggc | gccggcgggc | 540 |
| | ccagcggcag | ggccgaagcc | ggtcggggcc | tggccagtgg | cactgaagct | tcctccaccg | 600 |
| | accctggggc | cccagggggc | ccgggagggg | ctgagggtcc | catggccaag | aagcatgctg | 660 |
| | gcgagcgcga | taagaagctg | gcggccaaga | aaaagacgga | caagaagcgg | gcgctgcggg | 720 |
| | cgctgcggcg | gctgtagtgg | gctctcttcc | tccttcacc | gtgaccccaa | cctctcctgt | 780 |
| | ccccctctc | caactctgtc | tctaagttat | ttaaattatg | gctggggctc | gggagggtac | 840 |
| | agggggcact | gggacctgga | tttgttttcc | taaataaagt | tggaaaagca | | 890 |

<210> 1143
 <211> 2838
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 1143 | gggcgcagag | ctgggcccag | ccgtcgcccg | cgccacgcga | gtcccgcagc | cgccgcgccc | 60 |
| | gggcaatggg | ccgggggcac | tgaggggccg | cggggcccag | cgcgaggggg | ggaccgagcc | 120 |
| | agtgccgtgc | cctcggggcc | cgccaacatg | ccccgcggct | tcctggtgaa | gcgcagcaag | 180 |
| | aagtccacgc | ccgtttccta | ccgggtccgc | ggcggcgagg | acggcgaccg | cgactgctg | 240 |
| | ctctcgccca | gctgcggggg | cgcccgcgcc | gagcccccg | cgccgagccc | ggtccccggg | 300 |
| | ccgctgccgc | cgccgcgcgc | cgcgagagcg | gccccatgag | cgctcgccgc | cgcgcttgcc | 360 |
| | tgcgcgccct | ggccgcagcc | acccccgcag | ggcccgcggg | ccgcgcactt | cggcaacccc | 420 |
| | gaggctgcgc | acccccgcgc | gctctacagt | cccacgcggc | ccgtgagccg | cgagcacgag | 480 |
| | aagcacaagt | acttcgaacg | cagcttcaac | ctgggctcgc | cggtctcggc | cgagtccttc | 540 |
| | cccacgccc | ccgcgctgct | cggagggggc | ggcggcgggc | gcgcgagcgg | agctggcgga | 600 |
| | ggcggcacct | gcggcgccga | cccgtgctc | ttcgcgccc | ccgagctcaa | gatgggcacg | 660 |
| | gcgttctcgg | ctggcgccga | ggcggcccc | ggcccggggc | ccggccccc | actgccccct | 720 |
| | gccgcccgc | tgcgggcccc | gggaaagcgg | ccccgcgcc | ctaccgccc | ggagccgccc | 780 |
| | gccaaaggcag | tcaaggcccc | gggcgcgaag | aagcccaagg | ccatccgcaa | gctgcacttc | 840 |
| | gaggacgagg | tgaccacgtc | gcccgtgctg | gggtcaaga | tcaaggaggg | cccgggtggag | 900 |
| | gcgcccgcgg | gccgcgcggg | gggcgcggcg | cgccgcgtgg | gcgagttcat | ctgccagctg | 960 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tgcaaggagg | agtacgccga | cccgttcgcg | ctggcgcagc | acaaatgctc | gcgcatcgtg | 1020 |
| cgtgtggagt | accgctgtcc | cgagtgcgcc | aaggtcttca | gctgcccggc | caacctggcc | 1080 |
| tcgcaccgcc | gctggcacia | accgcggccc | gcgcccgcgc | ccgcccgcgc | gccggagcca | 1140 |
| gaagcagcag | ccagggtctga | ggcgcgggag | gcacccggcg | gcggcagcga | ccgggacacg | 1200 |
| ccgagccccg | gcggcgtgtc | cgagtgcggc | tccgaggacg | ggctctacga | gtgccatcac | 1260 |
| tgcgccaaga | agttccgccc | ccaggcctac | ctacgcaagc | acctgctggc | gcaccaccag | 1320 |
| gcgctgcagg | ccaagggcgc | gccgctagcg | cccccgccg | aggacctact | ggccttgtac | 1380 |
| cccgggcccc | acgagaaggc | gccccaggag | gcggccggcg | acggcgaggg | ggccggcgtg | 1440 |
| ctgggcctga | gtgcgtccgc | cgagtgccac | ctgtgcccag | tgtgcggaga | gtcgttcgcc | 1500 |
| agcaagggcg | ctcaggagcg | ccacctgcgc | ctgctgcacg | ccgcccagggt | gttccccctgc | 1560 |
| aagtactgcc | cggccacctt | ctacagctcg | cccgccctta | cgcggcacat | caacaagtgc | 1620 |
| cacctatccg | aaaacagaca | ggtgatcctc | ctgcagggtgc | ccgtgcgccc | ggcctgctag | 1680 |
| agcgcgccct | ccaccccggc | ccccgaactg | tgccttcgct | tggagacca | caaagagagt | 1740 |
| gcgcccctgca | cgccccgaac | ccgagtcgcg | gctgggggag | cctcgcccc | gccccaccg | 1800 |
| ggtgagagtg | tcgtctccgc | ttctctcggt | gtggcgtgac | ggtaaccca | tactctcctt | 1860 |
| ttgactcctt | ttggaacccc | cactttttacg | ttgtgtccct | ccgcctcccc | catggcgcaa | 1920 |
| caggagtcag | tctctttctg | tacaagggag | aaaagctgta | cgcgtttgtc | tcgtggtttg | 1980 |
| aagcctcccc | ttggcgggga | gaagcttttt | ttcttgctag | tattcgctgt | gttcatggtc | 2040 |
| tagaaatgcg | gtctgggtctc | gcctcgcccta | ccaatctctg | ctctctatgt | atgtagcgta | 2100 |
| cgggttggtt | tgggtgaatc | ttgaggaata | aatgccttta | tatttcacag | gctgtaaatt | 2160 |
| gaacttccca | cacgattagc | tttatttatgg | cttgtgaact | gctggagtct | ggctttacct | 2220 |
| ttttgtatgt | gaacaaatca | aattgcttaa | aaaagagttt | tcttttagtat | agccacaaat | 2280 |
| gccttgaact | gttgtctggg | attgttttgt | ggggggaggg | aagggagtgt | tccgaagatg | 2340 |
| ctgtagtaac | tgcctcagtg | tttcacgtaa | gacttttttg | tttgatcatc | tttgttgagg | 2400 |
| taggactatc | agttccctct | aaatgtatat | gttgatttat | gagtaattgt | tattttattct | 2460 |
| ttattttatt | atattaatta | tgaagattat | gatattat | gattgcagat | ttttttggcg | 2520 |
| cgctgcccc | tccccaccct | gccactcttg | acattccact | gtgcgtttta | gaagagagcc | 2580 |
| tttttctaaa | gggatctgct | taaagtttta | acttttatac | ctatctgagt | gaattacaga | 2640 |
| caacctatca | tttattctgc | ttcgagggtc | cccaggggccc | ttgtacaacc | gacagctctt | 2700 |
| acttttaaat | gcaatctctt | ttctacatac | attattttct | taattgttag | ctattttatag | 2760 |
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<210> 1144
 <211> 1717
 <212> DNA
 <213> Homo sapiens

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| ccaacacacc | caccccaagc | aagtcacaaa | tcagcctgct | ccaactgtct | tatggggagg | 120 |
| gtgtgagaga | ggtgccc aaa | ggcccctaaa | aggtgagcct | ctcctctctc | cccacagggg | 180 |
| tgaatgtgat | gctgaggaag | attgctgtgg | ctgcagcgct | caagccagca | gtggagatca | 240 |
| aacaggaggg | agacactttc | tacatcaaaa | cctccaccac | cgtgcgcacc | acagagatta | 300 |
| acttcaaggt | tggggaggag | tttgaggagc | agactgtgga | tgggaggccc | tgtaagggtga | 360 |
| gtgccagaag | gggctccagg | gtcatggcgt | cattgccctg | cctctcaacc | tgccattttc | 420 |
| caggctagca | gttaactcct | agcttctctc | tgtcccagta | gggaaaatcc | ctaggtagtg | 480 |

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|------|
| gtgggggcta | gaaaggggct | ctctccctta | tccctctcac | tgcattgccc | ctgctatggg | 540 |
| cccagctcac | ttggccacct | gtctcttgca | gagcctgggt | aaatgggaga | gtgagaataa | 600 |
| aatggtctgt | gagcagaagc | tcttgaaggg | agagggcccc | aagacctcgt | ggaccagaga | 660 |
| actgaccaac | gatggggaac | tgatcctggt | aagtcctgcc | tcttccccac | taatagcaaa | 720 |
| cccagtgtta | ccttccaaga | ttctctggga | gaccccaggg | tgcaggagac | tcaagaacaa | 780 |
| ccatggctgg | actccgcacc | ctgctgatgg | gactgcttga | acagaactaa | gggtgtcccta | 840 |
| tcccatacag | tgccctgtgt | gaattagaaa | tgggtgtcct | tttatgcaag | caaagggcat | 900 |
| gtactgaggg | atcccagcag | ttcttcaggg | agatcttcct | ggcttgagga | ggaggacggg | 960 |
| ccccagggct | ctattgtctat | cctccctcca | ttgatgcctg | ggcattcttg | gaccagctcc | 1020 |
| tgcctgttgg | tcttgagcca | agaagcaggt | ttggacctgg | aggccaagca | gagtacctcc | 1080 |
| attcaaccct | cctctccaaa | gccacaggac | cccagggggc | tctcaggcta | acaactactt | 1140 |
| ctgtccttcc | agaccatgac | ggcggatgac | gttgtgtgca | ccagggtcta | cgtccgagag | 1200 |
| tgagtggcca | caggtagaac | cgcggccgaa | gccaccact | ggccatgctc | accgccctgc | 1260 |
| ttcactgccc | cctccgtccc | acccctctct | tctaggatag | cgtccccctt | acccagctca | 1320 |
| cttctggggg | tactgggat | gcctcttgca | gggtcttgct | ttctttgacc | tcttctctcc | 1380 |
| tcccctacac | caacaaagag | gaatggctgc | aagagcccag | atcacccatt | ccgggttcac | 1440 |
| tccccgcctc | cccaagtcag | cagtcctagc | cccaaaccag | cccagagcag | ggtctctcta | 1500 |
| aaggggactt | gagggcctga | gcaggaaaga | ctggccctct | agcttctacc | ctttgtccct | 1560 |
| gtagcctata | cagtttagaa | tatttatattg | ttaattttat | taaaatgctt | taaaaaata | 1620 |
| aaacctgtct | ctggctcatt | gggcaggtag | ataagtcacc | tgagttcaac | cttgcctctg | 1680 |
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<210> 1145
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 <212> DNA
 <213> Homo sapiens

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| cgttgctgtc | ccagttagtg | actgcagcag | caccagaatc | tggctctgtt | cctgtttggc | 120 |
| tcttctacca | ctacggcttg | ggatctcggg | catgggtggc | ttgccaatgg | tccttgtttt | 180 |
| gctgctggtc | ctgagcagag | gtgagagtga | attggacgcc | aagatcccat | ccacagggga | 240 |
| tgccacagaa | tggcggaaac | ctcacctgtc | catgctgggg | tcttgccagc | cagccccctc | 300 |
| ctgccagaag | tgcacctct | cacaccccag | ctgtgcatgg | tgcaagcaac | tgaacttcac | 360 |
| cgcgtcggga | gaggcggagg | cgcggcgctg | cgcgccagca | gaggagctgc | tggctcgagg | 420 |
| ctgcccgctg | gaggagctgg | aggagccccg | cggccagcag | gaggtgctgc | aggaccagcc | 480 |
| gctcagccag | ggcgcccgcg | gagaggggtg | caccagctg | gcgccgcagc | gggtccgggt | 540 |
| cacgctgcgg | cctggggagc | cccagcagct | ccaggctccg | ttccttcgtg | ctgagggata | 600 |
| cccgggtggac | ctgtactacc | ttatggacct | gagctactcc | atgaaggacg | acctggaacg | 660 |
| cgtgcgccag | ctcgggcacg | ctctgctggt | ccggctgcag | gaagtcaccc | attctgtgcg | 720 |
| cattgggtttt | ggttcctttg | tggacaaaac | gggtgctgcc | tttgtgagca | cagtaccctc | 780 |
| caaactgcgc | cacccctgcc | ccacccggct | ggagcgtgct | cagtcaccat | tcagctttca | 840 |
| ccatgtgctg | tccctgacgg | gggacgcaca | agccttcgag | cgggaggtgg | ggcgccagag | 900 |
| tgtgtccggc | aatctggact | cgcctgaagg | tggcttcgat | gccattctgc | aggctgcact | 960 |
| ctgccaggag | cagattggct | ggagaaatgt | gtcccggctg | ctgggtgttca | cttcagacga | 1020 |
| cacattccat | acagctgggg | acgggaagtt | ggcgggcatt | ttcatgccc | gtgatgggca | 1080 |
| ctgccacttg | gacagcaatg | gcctctacag | tcgcagcaca | gagtttgact | acccttctgt | 1140 |
| gggtcaggtg | gccagggccc | tctctgcagc | aaatatccag | cccattcttg | ctgtcaccag | 1200 |

| | | | | | | |
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| tgccgcactg | cctgtctacc | aggagctgag | taaactgatt | cctaagtctg | cagttgggga | 1260 |
| gctgagttag | gactccagca | acgtggtaca | gctcatcatg | gatgcttata | atagcctgtc | 1320 |
| ttccaccgtg | acccttgaac | actcttctact | ccctcctggg | gtccacattt | cttacgaatc | 1380 |
| ccagtgtgag | ggtcctgaga | agagggaggg | taaggctgag | gatcgaggac | agtgaacca | 1440 |
| cgtccgaatc | aaccagacgg | tgactttctg | ggtttctctc | caagccaccc | actgcctccc | 1500 |
| agagcccat | ctcctgaggg | tccggggcct | tggcttctca | gaggagctga | ttgtggagtt | 1560 |
| gcacacgtg | tgtgactgta | attgcagtga | caccagccc | caggctcccc | actgcagtga | 1620 |
| tggccaggga | cacctacaat | gtggtgtatg | cagctgtgcc | cctggccggc | taggtcggct | 1680 |
| ctgtgagtgc | tctgtggcag | agctgtcctc | cccagacctg | gaatctgggt | gccgggctcc | 1740 |
| caatggcaca | gggcccctgt | gcagtggaaa | gggtcactgt | caatgtggac | gctgcagctg | 1800 |
| cagtggacag | agctctgggc | atctgtgcga | gtgtgacgat | gccagctgtg | agcgacatga | 1860 |
| gggcatcctc | tgccggaggct | ttggtcgtg | ccaatgtgga | gtatgtcact | gtcatgccaa | 1920 |
| ccgcacgggc | agagcatgcg | aatgcagtgg | ggacatggac | agttgcatca | gtcccagagg | 1980 |
| agggctctgc | agtgggcatg | gacgctgcaa | atgcaaccgc | tgccagtgtc | tggacggcta | 2040 |
| ctatggtgct | ctatgcgacc | aatgcccagg | ctgcaagaca | ccatgcgaga | gacaccggga | 2100 |
| ctgtgcagag | tgtggggcct | tcaggactgg | cccactggcc | accaactgca | gtacagcttg | 2160 |
| tgcccatacc | aatgtgaccc | tggccttggc | ccctatcttg | gatgatggct | ggtgcaaaga | 2220 |
| gcggaccctg | gacaaccagc | tgttcttctt | cttgggtggag | gatgacgcca | gaggcacggg | 2280 |
| cgtgctcaga | gtgagacccc | aagaaaagg | agcagaccac | acgcaggcca | ttgtgctggg | 2340 |
| ctgcgtagg | ggcatcgtgg | cagtggggct | ggggctggtc | ctggcttacc | ggctctcggt | 2400 |
| ggaaatctat | gaccgccggg | aatacagtcg | ctttgagaag | gagcagcaac | aactcaactg | 2460 |
| gaagcaggac | agtaatcctc | tctacaaaag | tgccatcacg | accaccatca | atcctcgctt | 2520 |
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| ccttgaggga | cagtgggaac | tggaggggtga | gaggaagggt | gggtctgtaa | gaccttggtg | 2640 |
| ggggactaat | tactggcgca | ggtgcggcca | ccaccctact | tcattttcag | agtgcacccc | 2700 |
| aagagggctg | cttcccatgc | ctgcaacctt | gcattccatct | gggctacccc | accaagtat | 2760 |
| acaataaagt | cttacctcag | aaaaaaaaaa | aaaaaaaaaa | | | 2798 |

<210> 1146
 <211> 5670
 <212> DNA
 <213> Homo sapiens

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| ataatgagac | aggagacat | tctggtcctc | atctcacaga | tgaaaaatgt | caagcttcga | 120 |
| aggatcaaag | tgcccaccta | gtcacacggg | tagtcagcca | caggtcagcc | tgccttattt | 180 |
| attcttcatg | agtatttata | gtgactaaca | tttactgggc | gcctactgtg | ggccatttct | 240 |
| gtgcatgtga | caaccctttt | aagtccttgt | ttctaattccc | aagaagcaag | gaaatggggg | 300 |
| caggggaagg | acaaggtttg | ccaagtcca | ggcaggggga | gaggtcaagc | tcagaacccat | 360 |
| cacctgccca | tgacacatgc | ccaggactca | ggttccttag | gcttccttcc | aaaggctcag | 420 |
| cagtgcagag | ccagcccttg | aaccagcctc | ttccccacc | caagcagcca | cctctcaggg | 480 |
| gaattgtggc | caccacaggt | gcagggagca | gtttctctcc | actcacagcc | tgaagcatac | 540 |
| ccggcagggg | ctgtccccag | gccaacaag | caaagggccc | agtagcgagg | gccactggag | 600 |
| cccatctccg | gggggctggg | caggaagtag | ggtgggggtt | ggggtaggga | tctggtaccc | 660 |
| tgggactgct | gcaactcaaa | ctaaccaacc | cactgggaga | agatgcctgg | gggtccagga | 720 |
| gtcctccaag | ctctgcctgc | caccatcttc | ctcctcttcc | tgctgtctgc | tgtctacctg | 780 |

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| ggtatgtggc | caaagggcag | gaactggcgg | gaggtggggg | aagctgtgga | ggctgcagag | 840 |
| agggcacagg | cagaggggaag | ggggctcagg | gaaaggggaa | gaggaggcag | aggatagggg | 900 |
| acccagggaa | gatgcctata | gaaatcgtat | ctgtgccaaag | atggggccaag | gtggggctgg | 960 |
| agggagccca | gcagaggaga | aggggcgtcc | acagtctcac | acagggaggc | aggagcaaga | 1020 |
| gtcacctccc | ccacctcctg | ttccccacag | gccaaaataa | ggaactaaag | ttgctcttga | 1080 |
| ctgagcacca | gggctggggg | caggaagggg | acttaggggt | agcagcattc | agcgtctgtc | 1140 |
| aaggggagaa | aaagctttct | ctgccttaaa | cctcaggtgc | ctctctctgt | tgggagtccc | 1200 |
| ttctcagcac | tgggggaatg | ggtgtctcat | ggactcccc | tcacctgctc | aaggacagct | 1260 |
| ggcaggggct | gtggcacgct | aacccaggag | ttcagagaaa | aaggttcccc | acccaaggga | 1320 |
| cactgggagc | aaggattgga | gttcacgtct | gagtcttaag | cccgtgacga | tgaggggtgt | 1380 |
| cggccccctc | ccccatctct | tcctccttct | ctcttcctca | cctccctcct | ccacctacct | 1440 |
| ccagaagagg | ggactggcca | tgtgggaggc | ctggctgaga | gctggggctt | cccagaggag | 1500 |
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| agtttgaacc | cagtgccact | cctgactgcc | tgggtgatgt | ggcaaccgc | ctgccctccc | 1800 |
| agagcctcag | ccatccctcc | tgtaaaatgg | ggctaaggag | agaacctact | tctaggggttc | 1860 |
| tgtgaatgat | tacacaagaa | aaagcgccag | gtgctgggcc | tggctgaggc | tggggtgcaa | 1920 |
| aaatggaccg | ggaaggctgc | gggaggaggg | gacgcctgca | ctgcttctgg | aaggagctgt | 1980 |
| ctggacagcg | tcctccagtg | cctggaacaa | acatccaaaa | tccagagagt | tcacagggcc | 2040 |
| agagtacaaa | gtgggtatgc | gggaggggga | caagagatgg | cgctgcagag | gtgagaaggg | 2100 |
| cctcccaggg | gtcttaccat | cccagggagt | ctcattctcc | tctcccagga | tatcctcacc | 2160 |
| cacccaacc | aggtatgtcc | tctctccttc | ccaggggctt | cttcactttc | ccgcatcccc | 2220 |
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| accagcctct | ccttaggcac | tacagaaagt | gtgactgtta | ttgttattat | tcattggagaa | 3480 |
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| gatgacaggc | atgtgctacc | acacccagct | aatttttgtt | ttagtagaga | cagggtttcg | 5520 |
| ccatgttggc | cgggctgggc | togaactcct | gacctcaagt | gatccaccat | gcttcggcct | 5580 |
| cccaaagtgc | tgggattaca | gcattgagcca | ctttatgcgt | atttaagcct | tggaaacaca | 5640 |
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<210> 1147
 <211> 1686
 <212> DNA
 <213> Homo sapiens

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| <400> 1147 | ccacgcgtcc | gggcgtaagc | caggcgtgtt | aaagccggtc | ggaactgctc | cggaggggcac | 60 |
| | gggctccgta | ggcaccaact | gcaaggaccc | ctccccctgc | gggcgctccc | atggcacagt | 120 |
| | tcgcgttcga | gagtgcctg | cactcgctgc | ttcagctgga | tgcacccatc | cccaatgcac | 180 |

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|------------|-------------|------------|-------------|------------|-------------|------|
| cccctgcgcg | ctggcagcgc | aaagccaagg | aagccgcagg | cccggccccc | tcacccatgc | 240 |
| gggcccgcga | ccgatccccc | agcgcgggca | ggactccggg | ccgaactcct | ggcaaatacca | 300 |
| gttccaaggt | tcagaccact | cctagcaaac | ctggcggtga | ccgctatatc | ccccatcgca | 360 |
| gtgctgcccc | gatggagggtg | gccagcttcc | tcttgagcaa | ggagaaccag | tctgaaaaca | 420 |
| gccagacgcc | caccaagaag | gaacatcaga | aagcctgggc | tttgaacctg | aacgggtttg | 480 |
| atgtagagga | agccaagatc | cttcggctca | gtggaaaacc | acaaaatgcg | ccagagggtt | 540 |
| atcagaacag | actgaaagta | ctctacagcc | aaaaggccac | tcttggtctc | agccggaaga | 600 |
| cctgccgtta | cattccttcc | ctgccagacc | gtatcctgga | tgcgcctgaa | atccgaaatg | 660 |
| actattacct | gaaccttggtg | gattggaggt | ctgggaatgt | actggccgtg | gcactggaca | 720 |
| acagtgtgta | cctgtggagt | gcaagctctg | gtgacatcct | gcagcttttg | caaataggagc | 780 |
| agcctgggga | atatatatcc | tctgtggcct | ggatcaaaga | gggcaactac | ttggctgtgg | 840 |
| gcaccagcag | tgctgagggtg | cagctatggg | atgtgcagca | gcagaaacgg | cttcgaaata | 900 |
| tgaccagtca | ctctgcccga | gtgggctccc | taagctggaa | cagctatatc | ctgtccagtg | 960 |
| gttcacgttc | tggccacatc | caccaccatg | atgttcgggt | agcagaacac | catgtggcca | 1020 |
| cactgagtgg | ccacagccag | gaagtgtgtg | ggctgcgctg | ggccccagat | ggacgacatt | 1080 |
| tggccagtgg | tggtaatgat | aacttggtca | atgtgtggcc | tagtgctcct | ggagagggtg | 1140 |
| gctgggttcc | tctgcagaca | ttcaccacgc | atcaaggggc | tgtcaaggcc | gtagcatggt | 1200 |
| gtccctggca | gtccaatgtc | ctggcaacag | gagggggcac | cagtgatcga | cacattcgca | 1260 |
| tctggaatgt | gtgctctggg | gcctgtctga | gtgccgtgga | tgccatttcc | caggtgtgct | 1320 |
| ccatcctctg | gtctccccat | tacaaggagc | tcattctcagg | ccatggcttt | gcacagaacc | 1380 |
| agctagtatt | ttggaagtac | ccaaccatgg | ccaaggtggc | tgaactcaaa | ggtcacacat | 1440 |
| cccgggtcct | gagtctgacc | atgagccagc | atggggccac | agtggcatcc | gcagcagcag | 1500 |
| atgagaccct | gaggctatgg | cgctgttttg | agttggaccc | tgcgcggcgg | cgggagcggg | 1560 |
| agaaggccag | tgagcccaaa | agcagcctca | tccaccaagg | catccgctga | agaccaaccc | 1620 |
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| ttaaaa | | | | | | 1686 |

<210> 1148
 <211> 2814
 <212> DNA
 <213> Homo sapiens

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| ttcaaaagtc | cgtggaaaga | aaaaaacctt | gtcctggctt | cagcttccaa | ctacaaagac | 120 |
| agacttggtc | cttttcaacg | gttttcacag | atccagtgc | ccacgctctg | aagacagaat | 180 |
| tagctaactt | tcaaaaacat | ctggaaaaat | gaagacttgg | gtaaaaatcg | tatttgaggt | 240 |
| tgccacctct | gctgtgcttg | ccttattggt | gatgtgcatt | gtcttacgcc | cttcaagagt | 300 |
| tcataactct | gaagaaaata | caatgagagc | actcacactg | aaggatattt | taaatggaac | 360 |
| attttcttat | aaaacatttt | ttccaaactg | gatttcagga | caagaatata | ttcatcaatc | 420 |
| tgcagataac | aatatagtag | tttataatat | tgaacagga | caatcatata | ccatttttag | 480 |
| taatagaacc | atgaaaagtg | tgaatgcttc | aaattacggc | ttatcacctg | atcggcaatt | 540 |
| tgtatatcta | gaaagtgatt | attcaaagct | ttggagatac | tcttacacag | caacatatta | 600 |
| catctatgac | ccttagcaatg | gagaatttgt | aagaggaaat | gagcttcctc | gtccaattca | 660 |
| gtattttatgc | tggtcgcttg | ttgggagtaa | attagcatat | gtctatcaaa | acaatatcta | 720 |
| tttgaaacaa | agaccaggag | atccaccttt | tcaaataaca | tttaattggaa | gagaaaataa | 780 |
| aatattttaat | ggaatcccag | actgggttta | tgaagaggaa | atgcttccta | caaaatatgc | 840 |

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|------------|------------|------------|------------|------------|------------|------|
| tctctggtgg | tctcctaata | gaaaattttt | ggcatatg | gaatttaata | ataaggatat | 900 |
| accagttatt | gcctattcct | attatggcga | tgaacaatat | cctagaacaa | taaatattcc | 960 |
| atacccaaag | gctggagcta | agaatcccgt | tgttcggata | tttattatcg | ataccactta | 1020 |
| ccctgcgtat | gtaggtcccc | aggaagtgcc | tgttcagca | atgatagcct | caagtgatta | 1080 |
| ttatttcagt | tggctcacgt | gggttactga | tgaacgagta | tgtttgcagt | ggctaaaaag | 1140 |
| agtccagaat | gtttcgggtc | tgtctatatg | tgacttcagg | gaagactggc | agacatggga | 1200 |
| ttgtccaaag | accaggagc | atatagaaga | aagcagaact | ggatgggctg | gtggattcct | 1260 |
| tgtttcaaga | ccagttttca | gctatgatgc | catttcgtac | tacaaaatat | ttagtacaa | 1320 |
| ggatggctac | aaacatatc | actatatcaa | agacactgtg | gaaaatgcta | ttcaaattac | 1380 |
| aagtggcaag | tgggaggcca | taaatatatt | cagagtaaca | caggattcac | tgttttattc | 1440 |
| tagcaatgaa | tttgaagaat | accctggaag | aagaaacatc | tacagaatta | gcattggaag | 1500 |
| ctatcctcca | agcaagaagt | gtgttacttg | ccatctaagg | aaagaaaggt | gccaatatta | 1560 |
| cacagcaagt | ttcagcgact | acgccaagta | ctatgcactt | gtctgctacg | gccaggcat | 1620 |
| ccccatttcc | acccttcctg | atggacgcac | tgatcaagaa | attaaaatcc | tggagaaaa | 1680 |
| caaggaattg | gaaaatgctt | tgaaaaatat | ccagctgcct | aaagaggaaa | ttaagaaact | 1740 |
| tgaagtagat | gaaattactt | tatggtacaa | gatgattcct | cctcctcaat | ttgacagatc | 1800 |
| aaagaagtat | cccttgctaa | ttcaagtgtg | tgggtggtcc | tgcagtcaga | gtgtaaggtc | 1860 |
| tgtatttgct | gttaattgga | tatcttatct | tgcaagtaag | gaagggatgg | tcattgcctt | 1920 |
| ggtggatggt | cgaggaacag | ctttccaagg | tgacaaactc | ctctatgcag | tgtatcgaaa | 1980 |
| gctgggtggt | tatgaagttg | aagaccagat | tacagctgtc | agaaaattca | tagaaatggg | 2040 |
| tttcattgat | gaaaaaagaa | tagccatatg | gggtggtcc | tatggaggat | acgtttcatc | 2100 |
| actggccctt | gcactctgaa | ctggtctttt | caaagtgtgt | atagcagtgg | ctccagtctc | 2160 |
| cagctgggaa | tattacgcgt | ctgtctacac | agagagattc | atgggtctcc | caacaaagga | 2220 |
| tgataatctt | gagcactata | agaattcaac | tgtgatggca | agagcagaat | atttcagaaa | 2280 |
| tgtagactat | cttctcatcc | acggaacagc | agatgataat | gtgcactttc | aaaactcagc | 2340 |
| acagattgct | aaagctctgg | ttaatgcaca | agtggatttc | caggcaatgt | ggtactctga | 2400 |
| ccagaaccac | ggcttatccg | gcctgtccac | gaaccactta | tacaccacac | tgaccactt | 2460 |
| cctaaagcag | tgtttctctt | tgtcagacta | aaaacgatgc | agatgcaagc | ctgtatcaga | 2520 |
| atctgaaaac | cttatataaa | cccctcagac | agtttgctta | ttttattttt | tatgttgtaa | 2580 |
| aatgctagta | taaacaaaca | aattaatgtt | gttctaaagg | ctgttaaaaa | aaagatgagg | 2640 |
| actcagaagt | tcaagctaaa | tattgtttac | atcttctggt | actctgtgaa | agaagagaaa | 2700 |
| agggagtcac | gcattttgct | ttggacacag | tgttttatca | cctgttcatt | tgaagaaaaa | 2760 |
| taataaagtc | agaagttcaa | aaaaaaaaaa | aaaaaaaaaa | aaagcggccg | ctcg | 2814 |

<210> 1149
 <211> 1388
 <212> DNA
 <213> Homo sapiens

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| | ccagaagcca | gcctttcgtc | cccgaccgcg | gcagcccag | caggagccgt | gggaccgggc | 120 |
| | gccagcacc | tctgcggcgt | gtcatgggcc | cgcgccgcgg | gagccgaaag | cccaggccc | 180 |
| | cgaggaggcg | cagcccagac | ccgaccgcga | ccccggccc | ctcccggcgg | ggccccctct | 240 |
| | taggcgcttc | ctcccatcaa | cacagtcggc | ggagacaagg | ttggctaaag | gagatccgaa | 300 |
| | agcttcagaa | gagcacacac | ctcttgataa | ggaagctgcc | cttcagccgc | ctggcaagag | 360 |
| | aaatatgtgt | taaattcact | cgtgggtgtg | acttcaattg | gcaagcccag | gccctattgg | 420 |
| | ccctacaaga | ggcagcagaa | gcatttctag | ttcatctctt | tgaggacgcc | tatctcctca | 480 |

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|-------------|-------------|------------|------------|------------|-------------|------|
| ccttacatgc | aggccgagtt | actctcttcc | caaaggatgt | gcaactggcc | cggaggatcc | 540 |
| ggggccttga | ggagggactc | ggctgagctc | ctgcaccag | tgtttctgtc | agtctttcct | 600 |
| gctcagccag | gggggatgat | accggggact | ctccagagcc | atgactagat | ccaatggatt | 660 |
| ctgcgatgct | gtctggactt | tgctgtctct | gaacagtatg | tgtgtgttgc | tttaaattatt | 720 |
| tttctttttt | ttgagaagga | gaagactgca | tgactttcct | ctgtaacaga | ggtaatatat | 780 |
| gagacaatca | acaccgttcc | aaaggcctga | aaataatttt | cagataaaga | gactccaagg | 840 |
| ttgacttttag | tttgtgagtt | actcatgtga | ctatttgagg | attttgaaaa | catcagattt | 900 |
| gctgtggtat | gggagaaaag | gttatgtact | tattatttta | gctctttctg | taatatttac | 960 |
| attttttacc | atatgtacat | ttgtactttt | attttacaca | taagggaaaa | aataagacca | 1020 |
| ctttgagcag | ttgcctggaa | ggctgggcat | ttccatcata | tagacctctg | cccttcagag | 1080 |
| tagcctcacc | attagtggca | gcatcatgta | actgagtggg | ctgtgcttgt | caacggatgt | 1140 |
| gtagcttttc | agaaacttaa | ttggggatga | atagaaaacc | tgtaagcttt | gatgttctgg | 1200 |
| ttacttctag | taaattcctg | tcaaaatcaa | ttcagaaatt | ctaacttgga | gaatttaaca | 1260 |
| ttttactctt | gtaaatacata | gaagatgtat | cataacagtt | cagaatttta | aagtacattt | 1320 |
| tcgatgcttt | tatgggtatt | tttgtagttt | ctttgtagag | agataataaa | aatcaaaaata | 1380 |
| tttaatga | | | | | | 1388 |

<210> 1150
 <211> 18648
 <212> DNA
 <213> Homo sapiens

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| tcctggcgga | gttatgcacg | ttgtagtccc | aactacctgg | gaggctgagg | cgggagaatc | 120 |
| acctgagcct | gggaggtcga | ggctgcagcg | agccgagatc | ggccgctgca | ttccagcctg | 180 |
| ggtgacagag | cgagaccatg | tctcaaaaaa | taaaaattaa | aaaaaaattg | ttttcattac | 240 |
| ctcagccctc | ctcttcctat | cccaaggcgt | cgaaattccg | gtcccacccc | ttcccatgga | 300 |
| gcccttggcg | tctccaggct | cctcaagcta | gtttcggttc | cgggctcacg | cgcggtttct | 360 |
| cgaaaatcag | ctgtttcagt | cttgggctag | tccactaatt | ggactcctcc | cctcgtagaa | 420 |
| agtgcctact | tgaacttctc | caccaatcgc | tgaagctgca | ggtgtgggtt | cggctcagct | 480 |
| tgtcccgccc | tggcggaggg | gcggagttgc | ggcggcgcca | gtgagctcgc | agtctgggaa | 540 |
| gggcttgact | gaatggcagc | cagtgtcggg | gtggcggctg | ggaatggggg | ccgctccgga | 600 |
| cttccgctgc | caactacaag | ggggcgggtc | cgaggggggt | tagccgaagt | tgtaggcggg | 660 |
| gcgcgaggtt | ctagtaccgc | agctcatact | agggacggga | agtcgcgacc | agagccattg | 720 |
| gagggcgcg | ggactgcaac | cctaatacag | tacgggccct | gagagggtgt | gctggggtag | 780 |
| gggtgggggt | gagagtgaga | gttcctccga | gggaaggcg | actggcccag | gggttacccc | 840 |
| ctggagaggg | tagcttcctt | cccagattg | aaataggagc | tgtcgccctg | tcggctcctg | 900 |
| atcttcttct | gtccagccta | tctccctaac | cctaatagcc | ctctcccaaa | actgccctgc | 960 |
| agcttccgag | acccggaatc | tggcattgtt | atgttggttc | ggtatctgac | gtttttccct | 1020 |
| ctgctctgca | ttatttttta | tcttcaccaa | aaaacgatgt | tcaaagatag | ataaatctaa | 1080 |
| aaacaaagat | agataaatct | attacccttg | tttcgtaaaa | agtataagct | actgaaagat | 1140 |
| gaaacgattg | cctaagggtca | cacacaaaat | tcagttcatt | tcagaaaagc | ttcttgagtg | 1200 |
| caaaatatgt | gcctaagaat | gagagataat | gagaaaaaat | tgtttcagcc | ccttaacctc | 1260 |
| agtgtttgca | atccatttgg | ggagaccagg | ttttttgttt | ttgttttcat | atltgaatct | 1320 |
| ttgtgactt | gctcctttaa | tatcagacac | ttaaatacctc | agatgggact | catcatattt | 1380 |
| tttttgagat | ggaatcttca | ctatgttgct | caagcttggt | ctgcaactcc | tggtctcaagc | 1440 |

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|------------|-------------|-------------|------------|-------------|-------------|------|
| catcctctcg | tcttgttggg | cctctcgtct | tgtgggcctg | cacaaagtgc | tgggattaca | 1500 |
| ggcatgagcc | attcatgccc | tgggcgcacc | ttggattgcy | atgtgtgtgt | gttgtgaagc | 1560 |
| tttttttttt | ggtatcataa | aagcaataca | gatacatagt | tttaaaaatc | aagcagctac | 1620 |
| taaaagagtt | aaaatgaaaa | tagccccctc | caatccctcc | cttgttcctg | ctggaggtag | 1680 |
| aaaggcagct | gatgttattc | atgttagtag | aagactctcc | caccccaagc | atttctcttt | 1740 |
| attttgtaat | aaaatcatgt | gaccttttta | gaccacaaat | atgcatgaat | tctgttctgt | 1800 |
| taggctcagg | ctgcaacaag | ataagtttca | gtttcctaaa | tagacaccag | ctggcagtga | 1860 |
| gcagggaaca | gtggggagaa | agatgcatgg | gacagcctgc | ttggtgacag | gcaaaaaccg | 1920 |
| gtttgttgtt | cttttagaga | cagagtcttg | ctttgtcacc | caggctggag | tgtagtgatg | 1980 |
| tgatctctgc | ttactgcaac | cctgcctctg | ggtacaagcc | attctcctgc | ctcagcctct | 2040 |
| tgagtagctg | ggattacagg | caacaatttt | aagtgaagtg | aagtttcagg | atctcgagca | 2100 |
| aagttgtata | acctataatc | atattcaaga | ttcacaggte | ataaacgtgt | catattcttg | 2160 |
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| aaagcttcag | gtggccgggc | atggtgggtc | accctgttaa | tccagcactt | tgggaggcag | 2340 |
| gtgggcagat | cacctgaggt | cagaagttca | gacagctgga | catatggtga | aacctcatct | 2400 |
| ctactaaaaa | tacaaaaaatt | agactgggca | tggtagtggg | cgctgtaat | cccagctagt | 2460 |
| cgggaggctg | aggcaggaga | atcccttcaa | ctcggacggc | agagtttgca | gtgaggccga | 2520 |
| gatcgtgtca | ctgcagtcca | gcctgggtga | cagagcaaga | ctccatctca | aaaaaagtaa | 2580 |
| aaaaaaaaaa | aagaaaaaaa | aaagcttcag | agccagcagg | gatcatgctg | taataaatac | 2640 |
| ttaacatcaa | cactgatctt | taaatgcttt | agcacaatca | aataataata | acaaacacac | 2700 |
| acataaatgc | aaaataaatg | aattagggag | atagatgaaa | taagattgtg | gaaatagtaa | 2760 |
| tgtttgttaa | agctggatgg | tgatccttgt | actattcact | ctactctagt | gtgtatttga | 2820 |
| aaattaccat | taggctgggt | atggtggctc | atgcctgtta | atcccggcat | tttgggaaggc | 2880 |
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| aaaaagaaaa | gaaaattccc | attaaagcac | aaaggcccac | ttattgaagc | tattaaata | 3180 |
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| aaaaaaaaat | acaggttggg | accacagtgg | ctcatgcctg | taatcctagt | actttgggag | 3540 |
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| aaccccatct | ctactaaaaa | atatacaaaa | attagctggg | cgtggtgggtg | ggtgcctgta | 3660 |
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| caatgagcca | agatcatctc | cacttcactc | cggcccaggc | aaaagagtga | gagtcactct | 3780 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaata | cagattaggc | attcctaata | tgaaaaattt | 3840 |
| ggctccaaaa | tgctccagtc | gagcatttcc | tttgagtgtc | atgtgggtgc | tcaaaaagtt | 3900 |
| agatttttgg | accattttca | gatttcagag | ttttggatta | gggatgctcg | actggtaagt | 3960 |
| aatcgagata | ttccaaaaat | ctggacaaat | ctgaaatcca | aaatgcttgg | aatagcagat | 4020 |
| actcaactgg | tagcactccc | tggagaata | tgcaccaaac | tgatagcagt | ggttaccttc | 4080 |

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|-------------|-------------|-------------|-------------|------------|------------|------|
| tggtgaggag | gggaaagaac | caagattagc | agtaggatca | acatatat | taatgttttc | 4140 |
| tgtat | ttactt | aatttaaaca | ttttaaatta | gtaataatga | acaatcatga | 4200 |
| aactatggat | gatttagtcc | agcaaaatat | ccaattggga | accctcatcc | ttctgcagag | 4260 |
| cccaa | gagtg | atgctgcaga | atcttgacag | cccctttcag | gatcagctgc | 4320 |
| accagcttta | ctcgcacagc | ctcctgcctg | tggacattcg | acagtacttg | gctgtctgga | 4380 |
| ttgaagacca | gaactgggtga | ggccttcagg | aagttggggg | aatgaaaaag | gtggccttcc | 4440 |
| acttctgggc | ccccgggatc | ctggaatcat | taatggcagg | aaggggttg | aaagcctcag | 4500 |
| gactacagta | acactgcaga | gacactaata | cttcttattc | ctgggccag | gcaggaagct | 4560 |
| gcacttggga | gtgatgattc | caaggctacc | atgctattct | tccacttctt | ggatcagctg | 4620 |
| aactatgagt | gtggccgttg | cagccaggac | ccagagtcct | tgttgctgca | gcacaatttg | 4680 |
| cggaaattct | gccgggacat | tcagggtactt | ggaacggttg | ggagtgatgg | ggtagcactg | 4740 |
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| atcgacagaga | aactgaaaga | acgcgagcgg | gagaatgatt | cacttaagga | taaagttgag | 6540 |

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|------|
| aaccttgaaa | gggaattgca | gatgtcagaa | gaaaaccagg | agctagtgat | tcttgatgcc | 6600 |
| gagaattcca | aagcagaagt | agagactcta | aaaacacaaa | tagaagagat | ggccagaagc | 6660 |
| ctgaaagttt | ttgaattaga | ccttgtcacg | ttaaggtctg | aaaaagaaaa | tctgacaaaa | 6720 |
| caaatacaag | aaaaacaagg | tcagttgtca | gaactagaca | agttactctc | ttcattttaa | 6780 |
| agtctgttag | aagaaaagga | gcaagcagag | atacagatca | aagaagaatc | taaaactgca | 6840 |
| gtggagatgc | ttcagaatca | gttaaaggag | ctaaatgagg | cagtagcagc | cttgtgtggt | 6900 |
| gaccaagaaa | ttatgaaggc | cacagaacag | agtctagacc | caccaataga | ggaagagcat | 6960 |
| cagctgagaa | atagcattga | aaagctgaga | gcccgcctag | aagctgatga | aaagaagcag | 7020 |
| ctctgtgtct | tacaacaact | gaaggaaagt | gagcatcatg | cagatttact | taagggtaga | 7080 |
| gtggagaacc | ttgaaagaga | gctagagata | gccaggacaa | accaagagca | tgcagctctt | 7140 |
| gaggcagaga | attccaaagg | agaggtagag | accctaaaag | caaaaataga | agggatgacc | 7200 |
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| tttgaaaata | ttttgcaaga | aaaagagcaa | gagaaagtac | agatgaaaga | aaaatcaagc | 7380 |
| actgccatgg | agatgcttca | aacacaatta | aaagagctca | atgagagagt | ggcagccctg | 7440 |
| cataatgacc | aagaagcctg | taaggccaaa | gagcagaatc | ttagtagtca | agtagagtgt | 7500 |
| cttgaacttg | agaaggctca | gttgctacaa | ggccttgatg | aggccaaaaa | taatttatatt | 7560 |
| gttttgcaat | cttcagtga | tggcctcatt | caagaagtag | aagatggcaa | gcagaaactg | 7620 |
| gagaagaagg | atgaagaaat | cagtagactg | aaaaatcaaa | ttcaagacca | agagcagctt | 7680 |
| gtctctaaac | tgtcccagg | ggaaggagag | caccaacttt | ggaaggagca | aaacttagaa | 7740 |
| ctgagaaatc | tgacagtgga | attggagcag | aagatccaag | tgctacaatc | caaaaatgcc | 7800 |
| tctttgcagg | acacattaga | agtgtctcag | agttcttaca | agaatctaga | gaatgagctt | 7860 |
| gaattgacaa | aatggacaa | aatgtccttt | gttgaaaaag | taaacaaaat | gactgcaaag | 7920 |
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| gaactcagtg | gagagaaaaa | taggctagct | ggagagttgc | agttactggt | ggaagaaata | 8040 |
| aagagcagca | aagatcaatt | gaaggagctc | acactagaaa | atagtgaatt | gaagaagagc | 8100 |
| ctagattgca | tgacaaaaga | ccagggtggaa | aaggaaggga | aagtgagaga | ggaaatagct | 8160 |
| gaatatcagc | tacggcttca | tgaagctgaa | aagaaacacc | aggctttgct | tttgacaca | 8220 |
| aacaaacagt | atgaagtaga | aatccagaca | taccgagaga | aattgacttc | taaagaagaa | 8280 |
| tgtctcagtt | cacagaagct | ggagatagac | cttttaaagt | ctagtaaaga | agagctcaat | 8340 |
| aattcattga | aagctactac | tcagattttg | gaagaattga | agaaaaccaa | gatggacaat | 8400 |
| ctaaaatatg | taaatcagtt | gaagaaggaa | aatgaacgtg | cccaggggaa | aatgaagttg | 8460 |
| ttgatcaaat | cctgtaaaca | gctggaagag | gaaaaggaga | tactgcagaa | agaactctct | 8520 |
| caacttcaag | ctgcacagga | gaagcagaaa | acaggtactg | ttatggatac | caaggtcgat | 8580 |
| gaattaacaa | ctgagatcaa | agaactgaaa | gaaactcttg | aagaaaaaac | caaggaggca | 8640 |
| gatgaatact | tggataagta | ctgttccttg | cttataagcc | atgaaaagtt | agagaaagct | 8700 |
| aaagagatgt | tagagacaca | agtggcccat | ctgtgttcac | agcaatctaa | acaagattcc | 8760 |
| cgagggctct | ctttgctagg | tccagttggt | ccaggaccat | ctccaatccc | ttctgttact | 8820 |
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| atatgggaga | atggtggagg | accaacacct | gctacccag | agagcttttc | taaaaaaagc | 8940 |
| aagaaagcag | tcatgagtgg | tattcaccct | gcagaagaca | cggaaggtac | tgagtttgag | 9000 |
| ccagagggac | ttccagaagt | tgtaaagaaa | gggtttgctg | acatcccagc | aggaaagact | 9060 |
| agcccatata | tcctgcgaag | aacaaccatg | gcaactcgga | ccagcccccg | cctggctgca | 9120 |
| cagaagttag | cgctatcccc | actgagtctc | ggcaaagaaa | atcttgacga | gtcctccaaa | 9180 |

| | | | | | | |
|-------------|-------------|------------|-------------|------------|------------|-------|
| ccaacagctg | gtggcagcag | atcacaaaag | gtcaaagttg | ctcagcggag | cccagtagat | 9240 |
| tcaggcacca | tcctccgaga | acccaccacg | aaatccgtcc | cagtcaataa | tcttcctgag | 9300 |
| agaagtccga | ctgacagccc | cagagagggc | ctgaggggtca | agcgaggccg | acttgtcccc | 9360 |
| agccccaag | ctggactgga | gtccaagggc | agtgagaact | gtaaggtcca | gtgaaggcac | 9420 |
| tttgtgtgtc | agtaccctctg | ggaggtgcc | gtcattgaat | agataaggct | gtgcctacag | 9480 |
| gacttctctt | tagtcagggc | atgctttatt | agtgaggaga | aaacaattcc | ttagaagtct | 9540 |
| taaatatatt | gtactcttta | gatctcccat | gtgtaggtat | tgaaaaagtt | tggaagcact | 9600 |
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| taaagctttt | tggtaatatg | ttacaattaa | aatgacaagc | actatatcac | aatctctgtt | 9720 |
| tgtatgtggg | ttttacacta | aaaaaatgca | aaacacattt | tattcttcta | attaacagct | 9780 |
| cctaggaaaa | tgtagacttt | tgctttatga | tattctatct | gtagtatgag | gcatggaata | 9840 |
| gttttgtatc | gggaatttct | cagagctgag | taaaatgaag | gaaaagcatg | ttatgtgttt | 9900 |
| ttaaggaaaa | tgtgcacaca | tatacatgta | ggagtgttta | tctttctctt | acaatctgtt | 9960 |
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| gtgagggtctg | caggcttcct | agaggtgtgc | tataccatgc | gtctgtcgtt | gtgctttttt | 10080 |
| ctgttttttag | accaattttt | tacagttctt | tggtaaagcat | tgtcgtatct | ggtgatggat | 10140 |
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| aaaaaaaaaa | a | | | | | 10211 |

<210> 1154
 <211> 670
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|-------------|-------------|------------|------------|------------|------------|-----|
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| | ggactgtcac | acggctgact | ctcagcaggg | gcagtagaat | gaaagagggc | atgtctaata | 120 |
| | acagcaccac | tagcatctcc | caagccagga | aagctgtgga | gcagctaaag | atggaagcct | 180 |
| | gtatggacag | ggtcaaggctc | tcccaggcag | ccgcggacct | cctggcctac | tgtgaagctc | 240 |
| | acgtgcggga | agatcctctc | atcattccag | tgcctgcac | agaaaacccc | tttcgcgaga | 300 |
| | agaagtctct | ttgtaccatt | ctctaactcc | gtgtgtgatg | aaaacgcctc | cttttctgac | 360 |
| | cttcaaagtc | ccctgtagag | accatgcatg | ctctaagcct | tagggagtga | gaccaacacc | 420 |
| | catccctgcc | cagccaacag | tggccggggc | ttgtcttatg | tttccatctg | ttttcttcgt | 480 |
| | ggcattcaat | ttcatttttt | tccttttcat | tttcatgtta | ttttcattat | tggcaaagaa | 540 |
| | aatcaaaaatg | tttatagcca | aataacaaat | gtgccatgta | aaagtaagtc | tggacttaag | 600 |
| | agttttaaata | ttttaaacat | cagtttccaa | gtttatatca | tattaataca | tttcagtgga | 660 |
| | taattttattt | | | | | | 670 |

<210> 1155
 <211> 2516
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| <400> 1155 | aatttcgggcc | gaaaagaaga | cagccttggg | tcgcgattgt | ggggcttcga | agagtccagc | 60 |
| | agtgggaatt | tctagaattt | ggaatcgagt | gcatttttctg | acatttgagt | acagtaccca | 120 |
| | gggggttcttg | gagaagaacc | tgggtcccaga | ggagcttgac | tgaccataaa | aatgagtact | 180 |
| | gcagatgcac | ttgatgatga | aaacacattt | aaaatattag | ttgcaacaga | tattcatctt | 240 |
| | ggatttatgg | agaaagatgc | agccagagga | aatgatacgt | ttgtaacact | cgatgaaatt | 300 |
| | ttaagacttg | cccaggaaaa | tgaagtggat | tttattttgt | taggtgggtga | tctttttcat | 360 |
| | gaaaataagc | cctcaaggaa | aacattacat | acctgcctcg | agttattaag | aaaatattgt | 420 |

| | | | | | | |
|-------------|------------|-------------|-------------|--------------|-------------|------|
| atggggtgatc | ggcctgtcca | gtttgaaatt | ctcagtgatc | agtcaagtcaa | cttttggtttt | 480 |
| agtaagtttc | catgggtgaa | ctatcaagat | ggcaacctca | acatttcaat | tccagtgttt | 540 |
| agtattcatg | gcaatcatga | cgatcccaca | ggggcagatg | cactttgtgc | cttggaacatt | 600 |
| ttaagttgtg | ctggatttgt | aaatcacttt | ggacgttcaa | tgtctgtgga | gaagatagac | 660 |
| attagtccgg | ttttgcttca | aaaaggaagc | acaaagattg | cgctatatgg | tttaggatcc | 720 |
| attccagatg | aaaggctcta | tcgaatgttt | gtcaataaaa | aagtaacaat | gttgagacca | 780 |
| aaggaagatg | agaactcttg | gtttaactta | tttgtgattc | atcagaacag | gagtaaacad | 840 |
| ggaagtacta | acttcattcc | agaacaattt | ttggatgact | tcattgatct | tgttatctgg | 900 |
| ggccatgaac | atgagtgtaa | aatagctcca | acaaaaatg | aacaacagct | gtttttatatc | 960 |
| tcacaacctg | gaagctcagt | ggttacttct | ctttccccag | gagaagctgt | aaagaaacat | 1020 |
| gttggtttgc | tgcgtattaa | agggaggaag | atgaatatgc | ataaaattcc | tcttcacaca | 1080 |
| gtgcggcagt | ttttcatgga | ggatattgtt | ctagctaatc | atccagacat | ttttaaccca | 1140 |
| gataatccta | aagtaaccca | agccatacaa | agcttctgtt | tggagaagat | tgaagaaatg | 1200 |
| cttgaaaatg | ctgaacggga | acgtctgggt | aattctcacc | agccagagaa | gcctcttgta | 1260 |
| cgactgcgag | tggactatag | tggaggtttt | gaacctttca | gtgttcttcg | cttttagccag | 1320 |
| aaatttgtgg | atcgggtagc | taatccaaaa | gacattatcc | atttttttcag | gcatagagaa | 1380 |
| caaaaggaaa | aaacaggaga | agagatcaac | tttgggaaac | ttatcacaaa | gccttcagaa | 1440 |
| ggaacaactt | taagggtaga | agatcttgta | aaacagtact | ttcaaaccgc | agagaagaat | 1500 |
| gtgcagctct | cactgctaac | agaaagaggg | atgggtgaag | cagtacaaga | at ttgtggac | 1560 |
| aaggaggaga | aagatgccat | tgaggaatta | gtgaaatacc | agttggaaaa | aacacagcga | 1620 |
| tttcttaaag | aacgtcatat | tgatgccctc | gaagacaaaa | tcgatgagga | ggtacgtcgt | 1680 |
| ttcagagaaa | ccagacaaaa | aaatactaata | gaagaagatg | atgaagtccg | tgaggctatg | 1740 |
| accagggcca | gagcactcag | atctcagtca | gaggagtctg | cttctgcctt | tagtgctgat | 1800 |
| gaccttatga | gtatagattt | agcagaacag | atggctaata | actctgatga | tagcatctca | 1860 |
| gcagcaacca | acaaaggaag | aggccgagga | agaggtcgaa | gagggtggaag | agggcagaat | 1920 |
| tcagcatcga | gaggagggtc | tcaaagagga | agagccttta | aatctacaag | acagcagcct | 1980 |
| tcccgaaatg | tcactactaa | gaattattca | gaggtgattg | aggtagatga | atcagatgtg | 2040 |
| gaagaagaca | tttttcctac | cacttcaaa | acagatcaaa | ggtgggtccag | cacatcatcc | 2100 |
| agcaaaatca | tgtcccagag | tcaagtatcg | aaaggggttg | at tt tgaatc | aagtgaggat | 2160 |
| gatgatgatg | atccttttat | gaacactagt | tctttaagaa | gaaatagaag | ataatatatt | 2220 |
| tactggcact | gagaaacatg | caagatacag | gaaaaatgaa | aatgtttaca | gctaagagtt | 2280 |
| tacagtttaa | gattttaagt | attgtttcct | gagcataact | ccataagtaa | gaaatttcta | 2340 |
| gttcacagac | atacaatagc | attgattcac | cttgtttttt | taacctgggt | gttgtagtaa | 2400 |
| gagctttgtt | tcaatatcac | tcttgagtaa | agattaaaaat | aaagctacca | ttttacattt | 2460 |
| ctaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaa | 2516 |

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<210> 1156
<211> 1125
<212> DNA
<213> Homo sapiens
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| gcacctgccg | cgtaccggcc | actttgtgcc | gtacttacgt | catctttttc | ctaaatcgag | 420 |
| gtggcattta | cacacagcgc | cagtgcacac | agcaagtgca | caggaagatg | agttttggcc | 480 |
| cctaaccgct | ccgtgatgcc | taccaagtca | cagacccttt | tcatcgctcc | agaaacgttt | 540 |
| catcacgtct | cttcccagtc | gattccccgac | cccaccttta | ttttgatctc | cataaccatt | 600 |
| ttgcctgttg | gagaacttca | tatagaatgg | aatcaggctg | ggcgctgtgg | ctcacgcctg | 660 |
| cactttggga | ggccgaggcg | ggcggattac | ttgaggatag | gagttccaga | ccagcgtggc | 720 |
| caacgtggtg | aatccccgtc | tctactaaaa | aatacaaaaa | ttagctgggc | gtgggtgggtg | 780 |
| cctgtaatcc | cagctattcg | ggagggtgag | gcaggagaat | cgcttgaacc | cgggaggcag | 840 |
| aggttgcaat | gagccaagat | cgtgccacta | cactccagcc | tgggcgacaa | gaacgaaact | 900 |
| ccgtctcaaa | aaaaaggggg | gaatcataca | ttatgtgctc | atttttgtcg | ggcttctgtc | 960 |
| cttcaatgta | ctgtctgaca | ttcgttcatg | ttgtatatat | cagtattttg | ctccttttca | 1020 |
| tttagtatag | tccatcgatt | gtatatccgt | ccttttgatg | gccttttgag | ttgtttccca | 1080 |
| tttgcggtta | tgaataaag | ctgctataaa | caaaaaaaaa | aaaaa | | 1125 |

<210> 1157
 <211> 2600
 <212> DNA
 <213> Homo sapiens

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| cgagtcggcg | cgcgggacga | agaataatca | tggggccagac | tgggaagaaa | tctgagaagg | 120 |
| gaccagtttg | ttggcggaag | cgtgtaaaat | cagagtacat | gcgactgaga | cagctcaaga | 180 |
| ggttcagacg | agctgatgaa | gtaaagagta | tgtttagttc | caatcgtcag | aaaatttttg | 240 |
| aaagaacgga | aatcttaaac | caagaatgga | aacagcgaag | gatacagcct | gtgcacatcc | 300 |
| tgactttctgt | gagctcattg | cgcgggacta | gggagtgttc | ggtgaccagt | gacttggatt | 360 |
| ttccaacaca | agtcatecca | ttaaagactc | tgaatgcagt | tgcttcagta | cccataatgt | 420 |
| attcttggtc | tcccctacag | cagaatttta | tgggtggaaga | tgaactgtt | ttacataaca | 480 |
| ttccttatat | gggagatgaa | gttttagatc | aggatggtac | tttcattgaa | gaactaataa | 540 |
| aaaattatga | tgggaaagta | cacggggata | gagaatgtgg | gtttataaat | gatgaaattt | 600 |
| ttgtggagtt | ggtgaatgcc | cttgggtcaat | ataatgatga | tgacgatgat | gatgatggag | 660 |
| acgatcctga | agaaagagaa | gaaaagcaga | aagatctgga | ggatcaccga | gatgataaag | 720 |
| aaagccgccc | acctcggaag | tttccttctg | ataaaatttt | tgaagccatt | tcctcaatgt | 780 |
| ttccagataa | gggcacagca | gaagaactaa | aggaaaaata | taaagaactc | accgaacagc | 840 |
| agctcccagg | cgcacttcct | cctgaatgta | cccccaacat | agatggacca | aatgctaaat | 900 |
| ctgttcagag | agagcaaagc | ttacactcct | ttcatacgtc | tttctgtagg | cgatgtttta | 960 |
| aatatgactg | cttcctacat | cctttttcatg | caacacccaa | cacttataag | cggagaaca | 1020 |
| cagaaacagc | tctagacaac | aaaccttgtg | gaccacagtg | ttaccagcat | ttggaggggag | 1080 |
| caaaggagtt | tgctgctgct | ctcaccgctg | agcgggataaa | gaccccacca | aaacgtccag | 1140 |
| gaggccgcag | aagaggacgg | cttcccataa | acagtagcag | gcccagcacc | cccaccatta | 1200 |
| atgtgctgga | atcaaaggat | acagacagtg | atagggaagc | agggactgaa | acggggggag | 1260 |
| agaacaatga | taaagaagaa | gaagagaaga | aagatgaaac | ttcgagctcc | tctgaagcaa | 1320 |
| attctcggtg | tcaaacacca | ataaagatga | agccaaatat | tgaacctcct | gagaatgtgg | 1380 |
| agtggagtgg | tgctgaagcc | tcaatgttta | gagtcctcat | tggcacttac | tatgacaatt | 1440 |
| tctgtgccat | tgctagggtta | attgggacca | aaacatgtag | acaggtgtat | gagtttagag | 1500 |
| tcaaagaatc | tagcatcata | gctccagctc | ccgctgagga | tgtggatact | cctccaagga | 1560 |
| aaaagaagag | gaaacaccgg | ttgtgggctg | cacactgcag | aaagatacag | ctgaaaaagg | 1620 |

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| acggctcctc | taaccatggt | tacaactatc | aaccctgtga | tcatccacgg | cagccttgtg | 1680 |
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| cagagtgtca | aaaccgcttt | ccgggatgcc | gctgcaaagc | acagtgcac | accaagcagt | 1800 |
| gcccgtgcta | cctggctgtc | cgagagtgtg | accctgacct | ctgtcttact | tgtggagccg | 1860 |
| ctgaccattg | ggacagtaaa | aatgtgtcct | gcaagaactg | cagtattcag | cggggctcca | 1920 |
| aaaagcatct | attgctggca | ccatctgacg | tggcaggctg | ggggattttt | atcaaagatc | 1980 |
| ctgtgcagaa | aaatgaattc | atctcagaat | actgtggaga | gattatttct | caagatgaag | 2040 |
| ctgacagaag | agggaaagtg | tatgataaat | acatgtgcag | ctttctgttc | aacttgaaca | 2100 |
| atgattttgt | ggtggatgca | acccgcaagg | gtaacaaaat | tcgttttgca | aatcattcgg | 2160 |
| taaatccaaa | ctgctatgca | aaagttatga | tggttaacgg | tgatcacagg | ataggtattt | 2220 |
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| ctgatgccct | gaagtatgtc | ggcatcgaaa | gagaaatgga | aatcccttga | catctgctac | 2340 |
| ctcctcccc | tcctctgaaa | cagctgcctt | agcttcagga | acctcgagta | ctgtgggcaa | 2400 |
| tttagaaaaa | gaacatgcag | tttgaaattc | tgaatttgca | aagtactgta | agaataattt | 2460 |
| atagtaatga | gtttaaaaat | caacttttta | ttgccttctc | accagctgca | aagtgttttg | 2520 |
| taccagtga | tttttgcaat | aatgcagtat | ggtacatttt | tcaactttga | ataaagaata | 2580 |
| cttgaacttg | tcaaaaaaaa | | | | | 2600 |

<210> 1158
 <211> 2740
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | atggactcgt | cgcttcaggc | ccgcctgttt | cccggctctg | ctatcaagat | ccaacgcagt | 120 |
| | aatggtttaa | ttcacagtgc | caatgtaagg | actgtgaact | tggagaaatc | ctgtgtttca | 180 |
| | gtggaatggg | cagaaggagg | tgccacaaag | ggcaaagaga | ttgattttga | tgatgtggct | 240 |
| | gcaataaacc | cagaactctt | acagcttctt | cccttacatc | cgaaggacaa | tctgcccttg | 300 |
| | caggaaaatg | taacaatcca | gaaacaaaaa | cggagatccg | tcaactccaa | aattcctgct | 360 |
| | ccaaaagaaa | gtcttcgaag | ccgctccact | cgcatgtcca | ctgtctcaga | gcttcgcac | 420 |
| | acggctcagg | agaatgacat | ggaggtggag | ctgcctgcag | ctgcaaactc | ccgcaagcag | 480 |
| | ttttcagttc | ctcctgcccc | cactaggcct | tcctgccctg | cagtggctga | aataccattg | 540 |
| | aggatggtca | gcgaggagat | ggaagagcaa | gtccattcca | tccgtggcag | ctcttctgca | 600 |
| | aaccctgtga | actcagttcg | gaggaaatca | tgtcttgtga | aggaagtgga | aaaaatgaag | 660 |
| | aacaagcgag | aagagaagaa | ggcccagaac | tctgaaatga | gaatgaagag | agctcaggag | 720 |
| | tatgacagta | gttttccaaa | ctgggaattt | gcccgaatga | ttaaagaatt | tcgggctact | 780 |
| | ttggaatgtc | atccacttac | tatgactgat | cctatcgaag | agcacagaat | atgtgtctgt | 840 |
| | gttaggaaac | gcccactgaa | taagcaagaa | ttggccaaga | aagaaattga | tgtgatttcc | 900 |
| | attcctagca | agtgtctcct | cttggtacat | gaacccaagt | tgaaagtgga | cttaacaaag | 960 |
| | tatctggaga | accaagcatt | ctgctttgac | tttgcatctg | atgaaacagc | ttcgaatgaa | 1020 |
| | gttgtctaca | ggttcacagc | aaggccactg | gtacagacaa | tctttgaagg | tggaaaagca | 1080 |
| | acttgttttg | catatggcca | gacaggaagt | ggcaagacac | atactatggg | cggagacctc | 1140 |
| | tctgggaaag | cccagaatgc | atccaaaggg | atctatgcc | tggcctccc | ggacgtcttc | 1200 |
| | ctcctgaaga | atcaaccctg | ctaccggaag | ttgggcctgg | aagtctatgt | gacattcttc | 1260 |
| | gagatctaca | atgggaagct | gtttgacctg | ctcaacaaga | aggccaagct | gcgcgtgctg | 1320 |
| | gaggacggca | agcaacaggt | gcaagtgggt | gggctgcagg | agcatctggt | taactctgct | 1380 |

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|------|
| gatgatgtca | tcaagatgct | cgacatgggc | agcgccctgca | gaacctcttg | gcagacattt | 1440 |
| gccaactcca | attcctccc | ctcccacgcg | tgcttccaaa | ttattcttcg | agctaaaggg | 1500 |
| agaatgcatg | gcaagtctc | tttggtagat | ctggcgagga | atgagcgagg | cgcagacact | 1560 |
| tccagtgtg | accggcagac | cgcgatggag | ggcgagaaa | tcaacaagag | tctcttagcc | 1620 |
| ctgaaggagt | gcatcagggc | cctgggacag | aacaaggctc | acaccccggt | ccgtgagagc | 1680 |
| aagctgacac | aggtgctgag | ggactccttc | attggggaga | actctaggac | ttgcatgatt | 1740 |
| gccacgatct | caccaggcat | aagctcctgt | gaatatactt | taaacaccct | gagatatgca | 1800 |
| gacaggggtca | aggagctgag | ccccacagt | gggcccagtg | gagagcagtt | gattcaaagt | 1860 |
| gaaacagaag | agatggaagc | ctgctctaac | ggggcgctga | ttccaggcaa | tttatccaa | 1920 |
| gaagaggagg | aactgtcttc | ccagatgtcc | agctttaacg | aagccatgac | tcagatcagg | 1980 |
| gagctggagg | agaaggctat | ggaagagctc | aaggagatca | tacagcaagg | accagactgg | 2040 |
| cttgagctct | ctgagatgac | cgagcagcca | gactatgacc | tggagacctt | tgtgaacaaa | 2100 |
| gcggaatctg | ctctggccca | gcaagccaag | catttctcag | ccctgcgaga | tgtcatcaag | 2160 |
| gccttacgcc | tggccatgca | gctggaagag | caggctagca | gacaaataag | cagcaagaaa | 2220 |
| cggccccagt | gacgactgca | aataaaaatc | tgtttggttt | gacaccagc | ctcttccttg | 2280 |
| gccctcccca | gagaactttg | ggtacctggt | gggtctaggg | aggtctgag | ctgggacagg | 2340 |
| ttctggtaaa | tgccaagtat | gggggcatct | gggcccaggg | cagctgggga | gggggtcaga | 2400 |
| gtgacatggg | acactccttt | tctgttcctc | agttgtcgcc | ctcacgagag | gaaggagctc | 2460 |
| ttagttaccc | ttttgtgttg | cccttccttc | catcaagggg | aatgttctca | gcatagagct | 2520 |
| ttctccgcag | catcctgcct | gcgtggactg | gctgctaagt | gagagctccc | tggggttgtc | 2580 |
| ctggctctgg | ggagagagac | ggagccttta | gtacagctat | ctgctggctc | taaaccttct | 2640 |
| acgcctttgg | gccgagcact | gaatgtcttg | tactttaaaa | aaatgtttct | gagacctctt | 2700 |
| tctactttac | tgtctcccta | gagtcctaga | ggatccctac | | | 2740 |

<210> 1159
 <211> 2327
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| <400> 1159 | | | | | | |
| aaatggtaga | actagtgatc | tcacccagcc | tactgtataa | cagcgattgt | ctggataaac | 60 |
| tgaagtttaa | ccgtgctgac | gctgctgtgt | ggactctgag | tgacagacaa | ggcatcacca | 120 |
| aatcggcccc | cctgagagtg | tcccagctct | tctccagatc | ttgccacagt | gtcctcccc | 180 |
| gccagccttc | cacagccatg | gcagcctacg | gccagacgca | gtacagtgcg | gggatccagc | 240 |
| aggctacccc | ctatacagct | taccacctc | cagcacaage | ctatggaatc | ccttcctaca | 300 |
| gcatcaagac | agaagacagc | ttgaaccatt | cccctggcca | gagtggattc | ctcagctatg | 360 |
| gctccagctt | cagcacctca | cccactggac | agagcccata | cacctaccag | atgcacggca | 420 |
| caacaggggt | ctatcaagga | ggaaatggac | tgggcaacgc | agccggtttc | gggagtgtgc | 480 |
| accaggacta | tccttcctac | cccggcttcc | cccagagcca | gtacccccag | tattacggct | 540 |
| catcctacaa | ccctccctac | gtcccggcca | gcagcatctg | cccttcaccc | ctctccacgt | 600 |
| ccacctacgt | cctccaggag | gcatctcaca | acgtcccca | ccagagttcc | gagtcacttg | 660 |
| ctggtgaata | caacacacac | aatggacctt | ccacaccagc | gaaagaggga | gacacagaca | 720 |
| ggccgcaccg | ggcctccgat | gggaagctcc | gaggccggtc | taagaggagc | agtgaccctg | 780 |
| ccccggcagg | ggacaatgag | attgagcgtg | tgttcgtgtg | ggacttggat | gagacaataa | 840 |
| ttatttttca | ctccttactc | acggggacat | ttgcatccag | atacggaag | gacaccacga | 900 |
| cgtccgtgcg | cattggcctt | atgatggaag | agatgatctt | caaccttgca | gatacacatc | 960 |
| tgttcttcaa | tgacctggag | gattgtgacc | agatccacgt | tgatgacgtc | tcatcagatg | 1020 |
| acaatggcca | agatttaagc | acatacaact | tctccgctga | cggcttccac | agttcggccc | 1080 |

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|------|
| caggagccaa | cctgtgcctg | ggctctggcg | tgcacggcgg | cgtggactgg | atgaggaagc | 1140 |
| tggccttccg | ctaccggcgg | gtgaaggaga | tgtacaatac | ctacaagaac | aacgttggtg | 1200 |
| ggttgatagg | cactcccaaa | agggagacct | ggctacagct | ccgagctgag | ctggaagctc | 1260 |
| tcacagacct | ctggctgacc | cactccctga | aggcactaaa | cctcatcaac | tcccggccca | 1320 |
| actgtgtcaa | tgtgctgggtc | accaccactc | aactaattcc | tgccctggcc | aaagtccctg | 1380 |
| tatatggcct | ggggctctgtg | tttcctattg | agaacatcta | cagtgcaccc | aagacagggg | 1440 |
| aggagagctg | cttcgagagg | ataatgcaga | gattcggcag | aaaagctgtc | tacgtggtga | 1500 |
| tcggtgatgg | tgtggaagag | gagcaaggag | cgaaaaagca | caacatgcct | ttctggcgga | 1560 |
| tatcctgcca | cgcgaaacctg | gaggcactga | ggcacgccct | ggagctggag | tatttatagc | 1620 |
| aggatcagca | gcatctccac | ctgccatctc | accctcagac | cccctcgccct | tccccacctc | 1680 |
| cccaccgaga | actccagaga | cccagatggt | ggacaccagg | aaggggcccc | acagccgaga | 1740 |
| cgactgtcca | gtgaccatct | cagaagccgt | ccatcagtcc | aaatgggggt | tctgagaagg | 1800 |
| aaagtaccca | acattggcctt | cggagtattt | gactttgggg | aaaagggctg | gctcggagtc | 1860 |
| tagactcttc | tgtgaagactc | acagaacaaa | agcaaggaat | tgctgatttg | gggggtgcct | 1920 |
| ggtgatgagg | aggggatggg | tttgtcttgt | cttcttttta | atttatggac | tagtctcatt | 1980 |
| actccggaat | tatgctcttg | tacctgtgtg | gctgggtttc | ttagtcgttg | gtttggtttg | 2040 |
| gttttttgaa | ctgggtatgtg | gggtggttca | cagttctaata | gtaagcactc | tattctccaa | 2100 |
| gttgtgtctt | gtggggacaaa | tcattctttg | aacattagag | aggaaggcag | ttcaagctgt | 2160 |
| tgaaaagact | attgcttatt | tttgttttta | aagacctacc | tgacgtcatg | tggacagtgc | 2220 |
| acgtgcctta | cgctacatct | tgttttctag | gaagaggggg | atgctgggaa | ggaatgggtg | 2280 |
| ctttgtgatg | gataaaaggc | attaaataaa | accacgttta | catttttg | | 2327 |

<210> 1160
 <211> 545
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 1160 | atggccctgc | tactggccct | cagcctgctg | gttctctgga | cttccccagc | cccaactctg | 60 |
| | agtggcacca | atgatgctga | agactgctgc | ctgtctgtga | cccagaaacc | catccctggg | 120 |
| | tacatcgtga | ggaacttcca | ctaccttctc | atcaaggatg | gctgcagggt | gcctgctgta | 180 |
| | gtgttcacca | cactgagggg | ccgccagctc | tgtgcacccc | cagaccagcc | ctgggtagaa | 240 |
| | cgcatcatcc | agagactgca | gaggacctca | gccaaagatga | agcgccgcag | cagttaacct | 300 |
| | atgaccgtgc | agagggagcc | cggagtccga | gtcaagcatt | gtgaattatt | acctaacctg | 360 |
| | gggaaccgag | gaccagaagg | aaggaccagg | cttccagctc | ctctgcacca | gacctgacca | 420 |
| | gccaggacag | ggcctggggg | gtgtgtgagt | gtgagtgtga | gcgagagggg | gagtgtgggtc | 480 |
| | tagagtaaag | ctgctccacc | cccagattgc | aatgctacca | ataaagccgc | ctgggtgttta | 540 |
| | caact | | | | | | 545 |

<210> 1161
 <211> 1669
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1161 | ggcacgagcg | gcacgagcgg | cggtagtcag | ggcagtttct | acgcaggctt | aaggaggctt | 60 |
| | cgggctcctg | ggatttctgt | ccgcgctcct | ggcccacgtc | cttcgcgccca | gagcagggtc | 120 |
| | gcaaactcct | cagacccttc | tgtctccggc | cgccgctttc | cgccggggcg | agacccccag | 180 |
| | gttcaaaatg | agcctgtttg | gaacaacctc | aggttttgga | accagtggga | ccagcatggt | 240 |
| | tggcagtgca | actacagaca | atcacaatcc | catgaaggat | attgaagtaa | catcatctcc | 300 |
| | tgatgatagc | attggttgtc | tgtcttttag | cccaccaacc | ttgccgggga | actttcttat | 360 |

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|------|
| tgcaggatca | tggtgtaatg | atgttcgctg | ctgggaagtt | caagacagtg | gacagacccat | 420 |
| tccaaaagcc | cagcagatgc | acactgggcc | tgtgcttgat | gtctgctgga | gtgacgatgg | 480 |
| gagcaaagtg | tttacggcat | cgtgtgataa | aactgccaaa | atgtgggacc | tcagcagtaa | 540 |
| ccaagcgata | cagatcgac | agcatgatgc | tctgtttaa | accatccatt | ggatcaaagc | 600 |
| tccaaactac | agctgtgtga | tgactgggag | ctgggataag | actttaaagt | tttgggatac | 660 |
| tcgatcgta | aatcctatga | tggttttgca | actccctgaa | aggtgttact | gtgctgacgt | 720 |
| gatatacccc | atggctgtgg | tggaactgc | agagaggggc | ctgattgtct | atcagctaga | 780 |
| gaatcaacct | tctgaattca | ggaggataga | atctccactg | aaacatcagc | atcgggtgtg | 840 |
| ggctatTTTT | aaagacaaac | agaacaagcc | gactggTTTT | gccctgggaa | gtatcgaggg | 900 |
| gagagttgct | attcactata | tcaaccccc | gaaccccgcc | aaagataact | tcacctttaa | 960 |
| atgtcatcga | tctaattggaa | ccaacacttc | agctcctcag | gacatttatg | cggtaaattgg | 1020 |
| aatcgcgttc | catcctgttc | atggcaccct | tgcaactgtg | ggatctgatg | gtagattcag | 1080 |
| cttctgggac | aaagatgcc | gaacaaaact | aaaaacttcg | gaacagttag | atcagcccat | 1140 |
| ctcagcttgc | tgtttcaatc | acaatggaaa | catatttgca | tacgcttcca | gctacgactg | 1200 |
| gtcaaaggga | catgaatttt | ataatcccc | gaaaaaaaat | tacattttcc | tgcgtaatgc | 1260 |
| ggccgaagag | ctaaagcccc | ggaataagaa | gtagtggctg | gagactctgg | ctcagccaga | 1320 |
| gttgtttctc | tccactctgc | ctcatctctg | tacgaatttg | ggcccagacc | ttgttgggtt | 1380 |
| gtcagccatg | gacatggatt | tcaacccctg | gagaaaacga | tgtcattgtt | cagcagctga | 1440 |
| gagccccagg | cgcccgccgc | gacttgccgt | ctctccattc | cactgcctgt | tgagaggttt | 1500 |
| ttctgtaact | aaggggggtg | aggttattgt | agacgttaga | ttgcgggcac | cgccagggat | 1560 |
| tttgacgcgc | ttcagtgtac | gtgttagaga | atattggaaa | agcgtctgtg | agccccgtgc | 1620 |
| tgtattttgt | aataaagtct | tttgacgatt | gaataaaaaa | aaaaaaaaaa | | 1669 |

<210> 1162
 <211> 482
 <212> DNA
 <213> Homo sapiens

| | |
|-------------|------------|
| <400> 1162 | |
| tgcgctgaca | gcagccatgg |
| atcacagttt | ttcactcaag |
| gggtggtggat | cttctgaacc |
| caaacaggtc | caggagctga |
| tgagatcatc | gcattccaag |
| catcgaggag | gcattccaag |
| catgctcttg | agggacgaga |
| gctctacaag | gtggccctgc |
| gg | |
| cgagcggcag | tgagacagc |
| gggcatcgat | ggcatgacca |
| gactcaaaga | tcacagtgtc |
| ctactggaca | acttcttga |
| cgaaaatttg | tcacggctt |
| aaactcattg | caaacctcaa |
| gctatcctca | ccatgaccca |
| gtcattagcg | agctacagga |
| | 482 |

<210> 1163
 <211> 934
 <212> DNA
 <213> Homo sapiens

| | |
|------------|------------|
| <400> 1163 | |
| gagcgagcgc | gctgcagcgc |
| gtctccatct | caggctgggt |
| tctaccatcg | acggcacggg |
| tgcgttaccg | actccacggg |
| gacggttata | tacaggcatg |
| ggttccatat | ttgcgctctt |
| agcagcgctt | cggagatcat |
| ccaccgacta | ctggaagggt |
| gggccaacct | gtggaaggcg |
| tcccctccat | gctggcgctg |
| ctgtcagcct | gggcttcttt |
| tcggaggctc | cgataaagcc |
| | 360 |

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| aaagctaaaa | ttgcttggtt | ggctgggatt | gtattcatat | tgtcagggct | gtgctcaatg | 420 |
| actggatggt | ccctatatgc | aaacaaaatc | acaacggaat | tctttgatcc | tctctttggt | 480 |
| gagcaaaagt | atgaattagg | agccgctctg | tttattggat | gggcaggagc | ctcactgtgc | 540 |
| ataattggtg | gtgtcatatt | ttgcttttca | atatctgaca | acaacaaaac | acccagatac | 600 |
| acatacaacg | ggggccacatc | tgtcatgtct | tctcggacaa | agtatcatgg | tggagaagat | 660 |
| tttaaaacaa | caaacccttc | aaaacagttt | gataaaaatg | cttatgtcta | aaagagctcg | 720 |
| ctggcaagct | gcctcttgag | tttggtataa | aagcgaactg | ttcacaaaat | gatcccatca | 780 |
| aggccctccc | ataattaaca | ctcaaaacta | tttttaaaat | atgcatttga | agcatctgtt | 840 |
| gattgtatgg | atgtaagtgt | tcttacatag | ttagttatat | actaatcatt | ttctgttggtg | 900 |
| gctttctata | aaaaataaac | agtttattta | cagg | | | 934 |

<210> 1164
 <211> 1356
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|-------------|------------|------------|------------|------------|------------|------|
| <400> 1164 | gtatatataa | cgtgatgagc | gtacgggtgc | ggagacgcac | cggagcgctc | gccagccgc | 60 |
| | cgyctccaag | cccctgaggt | ttccggggac | cacaatgaac | aagttgctgt | gctgcgcgct | 120 |
| | cgtgtttctg | gacatctcca | ttaagtggac | cacccaggaa | acgtttcctc | caaagtacct | 180 |
| | tcattatgac | gaagaaacct | ctcatcagct | gttgtgtgac | aaatgtcctc | ctggtacct | 240 |
| | cctaaaacaa | cactgtacag | caaagtggaa | gaccgtgtgc | gccccttgcc | ctgaccacta | 300 |
| | ctacacagac | agctggcaca | ccagtgcga | gtgtctatac | tgcagccccg | tgtgcaagga | 360 |
| | gctgcagtac | gtcaagcagg | agtgcacatc | caccacacac | cgcgtgtgcg | aatgcaagga | 420 |
| | agggcgctac | cttgagatag | agttctgctt | gaaacatagg | agctgccttc | ctggatttgg | 480 |
| | agtggtgcaa | gctggaaccc | cagagcgaaa | tacagtttgc | aaaagatgtc | cagatggggt | 540 |
| | cttctcaaat | gagacgtcat | ctaaagcacc | ctgtagaaaa | cacacaaatt | gcagtgtctt | 600 |
| | tgggtctcctg | ctaactcaga | aaggaaatgc | aacacacgac | aacatatgtt | ccggaaacag | 660 |
| | tgaatcaact | caaaaatgtg | gaatagatgt | taccctgtgt | gaggaggcat | tcttcagggt | 720 |
| | tgctgttcct | acaaagttta | cgcctaactg | gcttagtgtc | ttggtagaca | atttgcttgg | 780 |
| | caccaaagta | aacgcagaga | gtgtagagag | gataaaacgg | caacacagct | cacaagaaca | 840 |
| | gactttccag | ctgctgaagt | tatggaaaca | tcaaaacaaa | gccaagata | tagtcaagaa | 900 |
| | gatcatccaa | gatattgacc | tctgtgaaaa | cagcgtgcag | cggcacattg | gacatgctaa | 960 |
| | cctcaccttc | gagcagcttc | gtagcttgat | ggaaagctta | ccgggaaaga | aagtgggagc | 1020 |
| | agaagacatt | gaaaaaacia | taaaggcatg | caaaccagct | gaccagatcc | tgaagctgct | 1080 |
| | cagtttgtgg | cgaataaaaa | atggcgacca | agacaccttg | aagggcctaa | tgcacgcact | 1140 |
| | aaagcactca | aagacgtacc | actttcccaa | aactgtcact | cagagtctaa | agaagaccat | 1200 |
| | caggttcctt | cacagcttca | caatgtacaa | attgtatcag | aagttatttt | tagaaatgat | 1260 |
| | aggtaaccag | gtccaatcag | taaaaataag | ctgcttataa | ctggaaatgg | ccattgagct | 1320 |
| | gtttcctcac | aattggcgag | atcccatgga | tgataa | | | 1356 |

<210> 1165
 <211> 1050
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1165 | gggggggggg | ggcacttggc | ttcaaagctg | gctcttgtaa | attgagcgga | gacgagcggc | 60 |
| | ttgtttagtc | tgccgtgcgg | ccgccgcgga | ataataagcc | gggatctacc | ataccattga | 120 |
| | ctaactatgg | aagattatac | caaatagag | aaaattggag | aaggtaccta | tggagtgtg | 180 |
| | tataagggta | gacacaaaac | tacaggtcaa | gtggtagcca | tgaaaaaat | cagactagaa | 240 |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| gggatagcaa | aggtcttctt | cctcgcgcc | ttctccatcg | tcccaggaat | cccagggggc | 1620 |
| agcacagccg | cccccgcccc | acgttttttg | tggaaaatta | gagtgaacaa | gaacaccctt | 1680 |
| gccgactccc | agccccggcca | aaaagacaaa | acacatagac | gcacacactc | aggaggaaaa | 1740 |
| gaaaaaccgg | aattc | | | | | 1755 |

<210> 1167
 <211> 1807
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|-------------|------------|------------|------------|------------|------------|------|
| <400> 1167 | agcaggtgga | aggagaggaa | gcggatgccg | tggggtttac | agcaggaaaa | tccgtggaga | 60 |
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| | gtgagttacc | acaccagca | ttcctcctga | tcccagagaa | atcgatctg | cgaacagtgg | 240 |
| | caccagcctc | tagtctcaat | gtgaggtttg | actccaggac | gatgaattta | agctgggact | 300 |
| | gccaagaaaa | cacaaccttc | agcaagtgtt | tcttaactga | caagaagaac | agagtcgtgg | 360 |
| | aaccaggtct | cagtaacaac | gaatgttcgt | gcacatttcg | tgaaatttgt | ctgcatgaag | 420 |
| | gagtcacatt | tgaggttcac | gtgaatacta | gtcaaagagg | atttcaacag | aaactgcttt | 480 |
| | atccaaattc | aggaagggag | ggtaccgctg | ctcagaattt | ctcctgtttc | atctacaatg | 540 |
| | cggatttaaat | gaactgtacc | tgggcgaggg | gtccgacggc | cccccgtagc | gtccagtatt | 600 |
| | ttttgtacat | acgaaactca | aagagaagga | gggagatccg | gtgtccttat | tacatacaag | 660 |
| | actcaggaac | ccatgtggga | tgtcacctgg | ataacctgtc | aggattaacg | tctcgcaatt | 720 |
| | actttctggt | taacggaacc | agccgagaaa | ttggcatcca | attctttgat | tcacttttgg | 780 |
| | acacaaagaa | aatagaacga | ttcaaccttc | ccagcaatgt | caccgtacgt | tgcaacacga | 840 |
| | cgcactgcct | cgtacggtgg | aaacagcccc | ggacctatca | gaagctgtcg | tacctggact | 900 |
| | ttcagtagca | gctggacgtc | cacagaaaga | ataccagacc | tggcacggaa | aacctactga | 960 |
| | ttaatgtttc | tgggtatttg | gaaaatagat | acaactttcc | aagctctgag | cccagagcaa | 1020 |
| | aacacagtgt | gaagatcaga | gctgcagacg | tccgcactct | gaattggagc | tcctggagtg | 1080 |
| | aagccattga | atttggttct | gacgacggga | acctcggtct | tgtgtacatt | tatgtgctcc | 1140 |
| | taatcgtggg | aacctttgtc | tgtggcatcg | tcctcggtct | cctctttaaa | aggttcctta | 1200 |
| | ggatacagcg | gctgttcccc | ccagttccac | agatcaaaga | caaactgaat | gataaccatg | 1260 |
| | aggtggaaga | cgagatcatc | tgggaggaat | tcaccccaga | ggaagggaaa | ggctaccgcg | 1320 |
| | aagaggtctt | gaccgtgaag | gaaattacct | gagaccacga | gggtgtagga | atggcatgga | 1380 |
| | catctccgcc | tccgcgacac | gggggaactg | ttttcttgat | gatgctgtga | acctttatat | 1440 |
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| | accagcctgc | ccaacatggt | gaaaccccat | ctggactaaa | aatgcagaaa | tttaccacag | 1620 |
| | cacggcggcg | gacgcccata | atcccagcta | cttgggaggg | tgaggcagga | gaattgcttg | 1680 |
| | aaccctgtgag | gcggaggttg | tagtgagcca | agatcgcacc | attgcacacc | aacctgcgtg | 1740 |
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<210> 1168
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 <213> Homo sapiens

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| ggggagggaa | gggggtgtcta | ttgggcaaca | gggcggcaaa | gccctgaata | aaggggcgca | 240 |
| gggcaggcgc | aagtgcagag | ccttcgtttg | ccaagtcgcc | tccagaccgc | agacatgaaa | 300 |
| cttgtcttcc | tgcgtcctgct | gttcctcggg | gccctcggac | tgtgtctggc | tgcccgtagg | 360 |
| agaaggagt | ttcagtgggt | cgccgtatcc | caacccgagg | ccacaaaatg | cttccaatgg | 420 |
| caaaggaata | tgagaaaagt | gcgtggccct | cctgtcagct | gcataaagag | agactcccc | 480 |
| atccagtgt | tccaggccat | tgcggaaaac | agggccgatg | ctgtgaccct | tgatgggtgt | 540 |
| ttcatatacg | aggcaggcct | ggccccctac | aaactgcgac | ctgtagcggc | ggaagtctac | 600 |
| gggaccgaaa | gacagccacg | aactcactat | tatgccgtgg | ctgtggtgaa | gaagggcggc | 660 |
| agcttttcagc | tgaacgaact | gcaaggtctg | aagtcctgcc | acacaggcct | tcgcaggacc | 720 |
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| aaaggacagt | tccccaacct | gtgtcgcctg | tgtgcgggga | caggggaaaa | caaatgtgcc | 900 |
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| gaaagggacg | agtatgagtt | actctgccc | gacaacactc | ggaagccagt | ggacaagttc | 1080 |
| aaagactgcc | atctggcccc | ggtcccttct | catgccgttg | tggcacgaag | tgtgaatggc | 1140 |
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| tctgccattg | ggttttcgag | ggtgcccccg | aggatagatt | ctgggctgta | ccttggtccc | 1320 |
| ggctacttca | ctgccatcca | gaacttgagg | aaaagtgagg | aggaagtggc | tgccccggcg | 1380 |
| gcgcgggtcg | tgtggtgtgc | ggtgggcgag | caggagctgc | gcaagtgtaa | ccagtggagt | 1440 |
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| ctggtgctga | aaggagaagc | tgatgccatg | agtttggtatg | gaggatatgt | gtacactgca | 1560 |
| tgcaaatgtg | gtttggtgcc | tgtcctggca | gagaactaca | aatcccaaca | aagcagtgc | 1620 |
| cctgactcta | actgtgtgga | tagacctgtg | gaaggatata | ttgctgtggc | ggtggttagg | 1680 |
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| tgcaaatgtg | atgaatattt | cagtcaaagc | tgtgcccttg | ggtctgacct | gagatcta | 1860 |
| ctctgtgctc | tgtgtatttg | cgacgagcag | ggtgagaata | agtgcgtgcc | caacagcaac | 1920 |
| gagagatact | acggctacac | tggggctttc | cggtgcctgg | ctgagaatgc | tggagacgtt | 1980 |
| gcattttgtga | aagatgtcac | tgtcttgtag | aacactgatg | gaaataacaa | tgaggcatgg | 2040 |
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| aatggatctg | actgccccga | caagttttgc | ttattccagt | ctgaaaccaa | aaaccttctg | 2280 |
| ttcaatgaca | acactgagtg | tctggccaga | ctccatggca | aaacaacata | tgaaaaatat | 2340 |
| ttgggaccac | agtatgtcgc | aggcattact | aatctgaaaa | agtgtctaac | ctccccctc | 2400 |
| ctggaagcct | gtgaattcct | caggaagtaa | aaccgaagaa | gatggcccag | ctccccaga | 2460 |
| aagcctcagc | cattcactgc | ccccagctct | tctccccagg | tgtgttgggg | ccttggtccc | 2520 |
| cctgctgaag | gtggggattg | cccatccatc | tgcttacaat | tccctgctgt | cgtcttagca | 2580 |
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<210> 1169
 <211> 2500
 <212> DNA

<213> Homo sapiens

<400> 1169

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| caccaaagcc | aatgggaagg | gccgggagcg | cgcggcgcgg | gagatttaaa | ggctgctgga | 120 |
| gtgaggggtc | gcccggtcac | cctgtcccag | ccgtcctgtc | ctggctgctc | gctctgcttc | 180 |
| gctgcgcctc | cactatgtct | tccctccgtg | ccccgctcgc | gcccatacag | gacccgcagc | 240 |
| agctgcagct | ctcgccgctg | aaggggctca | gcttggtcga | caaggagaac | acgccgccgg | 300 |
| ccctgagcgg | gacccgcgtc | ctggccagca | agaccgcgag | gaggatcttc | caggagccca | 360 |
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| acccccgccg | ctttgtcatc | ttccccatcg | agtaccatga | tatctggcag | atgtataaga | 480 |
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| cagaagcccc | ctgtttctat | ggcttccaaa | ttgccatgga | aaacatacat | tctgaaatgt | 720 |
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| ccattgaaac | gatgccttgt | gtcaagaaga | aggcagactg | ggccttgccg | tggattgggg | 840 |
| acaagagggc | tacctatggt | gaacgtgttg | tagcctttgc | tgcagtggaa | ggcattttct | 900 |
| tttccggttc | ttttgcgtcg | atattctggc | tcaagaaacg | aggactgatg | cctggcctca | 960 |
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| ctgttcggat | agaacaggag | ttcctcactg | aggccttgcc | tgtgaagctc | attgggatga | 1140 |
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| gttttagcaa | ggttttcaga | gtagagaacc | catttgactt | tatggagaat | atttcactgg | 1260 |
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| tacctcacia | ccagtcctgt | ctgtttatag | tgctggtagt | atcacctttt | gccagaaggc | 1560 |
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| tttggtttct | acaccaaata | catttctcctg | accactaatg | ggagccaatt | cacaattcac | 1860 |
| taagtgacta | aagtaagtta | aacttgtgta | gactaagcat | gtaattttta | agttttatct | 1920 |
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| gttccataca | gttgttcatt | ctagttttgt | ttggtgtaag | taggttgtgt | gagttaattc | 2400 |
| atttatattt | actatgtctg | ttaaatcaga | aattttttat | tatctatgtt | cttctagatt | 2460 |
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| accagccca | cccattgaag | tctccttggg | ccaccaaagg | tggtagccat | ggtaccgggg | 3240 |
| acttgggaga | gtgagaccca | gtggagggag | caagaggaga | gggatgtcgg | gggggtgggg | 3300 |
| cacggggtag | gggaaatggg | gtgaacgggtg | ctggcagttc | ggctagattt | ctgtcttgtt | 3360 |
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<210> 1171
 <211> 3314
 <212> DNA
 <213> Homo sapiens

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| | cctggggagg | gcttgacacg | gggttccac | agcttgcccc | acaccacctt | cacaccacac | 180 |
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| | ctgcctggac | atggaagggt | ctgtgtctgc | agtgcagag | gaggctgcc | tgtgtgccgg | 780 |
| | ctggctctcc | cagcccaccc | cggccaccct | gcagcccctg | gccccatgga | caccttacac | 840 |
| | cgagtatgtg | ccccatgaag | ctgtcagctg | cccctactca | gctgacatgt | atgtgcagcc | 900 |
| | cgtgtgcccc | agctacacgg | tgggtggggc | ctcctcagt | ttggcctatg | cctctccgcc | 960 |
| | actcatcacc | aatgtcacga | caagaagctc | cgccacgccc | gcagtggggc | ccccgctgga | 1020 |
| | gggcccagag | caccaggcac | ccctcaccta | tttcccgtgg | cctcagcccc | tttccacact | 1080 |
| | accacctcc | accctgcagt | accggcctcc | ggccccagcc | ctacctgggc | cccagtttgt | 1140 |
| | ccagctcccc | atctctatcc | cagagccagt | ccttcaggac | atggaagacc | ccagaagagc | 1200 |
| | cgccagctcg | ttgaccatcg | acaagctgct | tttggaggaa | gaggatagcg | acgcctatgc | 1260 |
| | gcttaaccac | actctctctg | tgggaaggctt | ttaggcgtgg | ctcccacctg | agtcctgttc | 1320 |
| | cctgaaactg | ggatttttaa | atgagcctgg | aattgagccc | caggttcatg | cttgtttgga | 1380 |
| | gtagtcattt | catgactact | ctttctacgc | acagctagaa | ttgtagacct | gtaaaccttc | 1440 |

| | | | | | | |
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| cttcccttct | tccttccct | ccctccctca | cttccctccct | ctcccccatc | cttccattct | 1500 |
| tccctccct | cccttcttcc | tttccaaccc | cttccctccct | tttccctccct | cccttccctc | 1560 |
| cctcccttcc | ttctcccttt | ccaacccctt | ccttccctttt | cctccctccc | ttccttccct | 1620 |
| ccttcccttc | tccctttcct | tctttacctc | cctccctccc | tcgcttcttc | tctctttctt | 1680 |
| acttcttttt | tcaattctgt | tccatttttg | gaggtaatta | tagggatttt | agcaataaca | 1740 |
| ttttatgtca | aatgttgcca | agtctgtggg | ccatgggctt | tcatttctgt | cacatttcat | 1800 |
| ttcttgga | aggcctcctt | cctccagtgc | ctgctgaacc | atcttagggg | cactcacacc | 1860 |
| ctctgtaatt | ttaagatgta | tgtgggtggc | ggcgggaaga | ccagccccga | cagcacctcc | 1920 |
| tgagaaagtc | agccaagggc | ctaccctgat | gccagagtcc | ttgagctgtc | agttcccaca | 1980 |
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| tcagggtggg | tggggacagg | ccagtgcga | agagagggac | agaggagggg | tgggaacagg | 2160 |
| ctgtgcatct | tagttggaga | gaggggtgtg | ggaggaagct | tgagtttgat | gcaggaggga | 2220 |
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| aaggaaagca | ttgcttgaag | agatggtttt | gctgctctcc | ttgaggatac | gtgcaagggg | 2340 |
| agttgggctg | ttgtaaacag | ggtgaagggt | gtgtttgggc | ggccatttct | ctctcacctc | 2400 |
| taggccctct | gctgggtgctg | tggaggccaa | gacccatta | agcctaaagg | tgatgggtcc | 2460 |
| tcgcctaggc | ttagtgctac | catgtgggtt | ttgtttcttt | ccttccctcc | ttccttccct | 2520 |
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| agaaacatca | ggtttgtagg | agactgagtt | gttagcaggt | gtgcttagct | cttgatagtg | 3120 |
| aacgtgtacc | ttgggaactg | gctcacccac | ctgctaatag | caccatcgtc | actattaagc | 3180 |
| agacatttca | gttggtagaa | tccatgtaga | agtcatggac | ttttctggga | aatgactttt | 3240 |
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| gaaaaaaaaa | aaaa | | | | | 3314 |

<210> 1172
 <211> 5420
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | ggtcaagtcc | caaagatgtc | tgtaaacgta | aatcatgtaa | aactcctcca | gatccagtga | 180 |
| | atggcatggg | gcatgtgatc | acagacatcc | aggttggatc | cagaatcaac | tattcttgta | 240 |
| | ctacagggca | ccgactcatt | ggtcactcat | ctgctgaatg | tatcctctcg | ggcaatgctg | 300 |
| | cccattggag | cacgaagccg | ccaatttgtc | aacgaattcc | ttgtgggcta | ccccccacca | 360 |
| | tcgccaatgg | agatttctatt | agcaccaaca | gagagaattt | tcactatgga | tcagtgggtga | 420 |
| | cctaccgctg | caatcctgga | agcggaggga | gaaagggtgt | tgagcttggtg | ggtgagccct | 480 |

| | | | | | | |
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| ccatatactg | caccagcaat | gacgatcaag | tgggcatctg | gagcggcccc | gcccctcagt | 540 |
| gcattatacc | taacaaatgc | acgcctccaa | atgtggaaaa | tggaatattg | gtatctgaca | 600 |
| acagaagctt | attttcctta | aatgaagttg | tggagtttag | gtgtcagcct | ggctttgtca | 660 |
| tgaaaggacc | ccgccgtgtg | aagtgccagg | ccctgaacaa | atgggagccg | gagctaccaa | 720 |
| gctgctccag | ggtatgtcag | ccacctccag | atgtcctgca | tgctgagcgt | acccaaaggg | 780 |
| acaaggacaa | cttttcaccc | gggcaggaag | tgttctacag | ctgtgagccc | ggctatgacc | 840 |
| tcagaggggc | tgcgtctatg | cgctgcacac | cccagggaga | ctggagccct | gcagccccca | 900 |
| catgtgaagt | gaaatcctgt | gatgacttca | tgggccaaact | tcttaatggc | cgtgtgctat | 960 |
| ttccagtaaa | tctccagctt | ggagcaaaag | tggattttgt | ttgtgatgaa | ggattttcaat | 1020 |
| taaaaggcag | ctctgctagt | tattgtgtct | tggctggaat | ggaaagcctt | tggaatagca | 1080 |
| gtgttccagt | gtgtgaacaa | atcttttgtc | caagtcctcc | agttattcct | aatgggagac | 1140 |
| acacaggaaa | acctctggaa | gtctttccct | ttggaaaagc | agtaaattac | acatgcgacc | 1200 |
| cccaccaga | cagagggacg | agcttcgacc | tcattggaga | gagcaccatc | cgctgcacaa | 1260 |
| gtgaccctca | aggaatggg | gtttggagca | gccctgcccc | tcgctgtgga | attctgggtc | 1320 |
| actgtcaagc | cccagatcat | tttctgtttg | ccaagttgaa | aacccaaacc | aatgcatctg | 1380 |
| actttcccat | tgggacatct | ttaaagtacg | aatgccgtcc | tgagtactac | gggaggccat | 1440 |
| tctctatcac | atgtctagat | aacctgggtc | ggtcaagtcc | caaagatgtc | tgtaaacgta | 1500 |
| aatcatgtaa | aactcctcca | gatccagtga | atggcatggt | gcatgtgatc | acagacatcc | 1560 |
| aggttggatc | cagaatcaac | tattcttgta | ctacagggca | ccgactcatt | ggtcactcat | 1620 |
| ctgctgaatg | tatcctctca | ggcaatactg | cccattggag | cacgaagccg | ccaatttgct | 1680 |
| aacgaattcc | ttgtgggcta | cccccaacca | tcgccaatgg | agatttcatt | agcaccaaca | 1740 |
| gagagaattt | tcactatgga | tcagtgggtga | cctaccgctg | caatcttgga | agcagaggga | 1800 |
| gaaagggtgt | tgagcttggt | ggtgagccct | ccatatactg | caccagcaat | gacgatcaag | 1860 |
| tgggcatctg | gagcggcccc | gcccctcagt | gcattatacc | taacaaatgc | acgcctccaa | 1920 |
| atgtggaaaa | tggaatattg | gtatctgaca | acagaagctt | attttcctta | aatgaagttg | 1980 |
| tggagtttag | gtgtcagcct | ggctttgtca | tgaaaggacc | ccgccgtgtg | aagtgccagg | 2040 |
| ccctgaacaa | atgggagcca | gagttaccaa | gctgctccag | ggtgtgtcag | ccgcctccag | 2100 |
| aaatcctgca | tgggtgagcat | accccaagcc | atcaggacaa | cttttcacct | gggcaggaag | 2160 |
| tgttctacag | ctgtgagcct | ggctatgacc | tcagaggggc | tgcgtctctg | cactgcacac | 2220 |
| cccagggaga | ctggagccct | gaagccccga | gatgtgcagt | gaaatcctgt | gatgacttct | 2280 |
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| tgggttggat | gagaagcctt | tgggaataaca | gtgttcctgt | gtgtgaacat | atcttttgtc | 2460 |
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| atggaaaaga | aatatcttac | acatgtgacc | cccaccaga | cagagggatg | accttcaacc | 2580 |
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| acttgggtctg | gtcaagtgtt | gaagacaact | gtagacgaaa | atcatgtgga | cctccaccag | 2880 |
| aacccttcaa | tggaatgggt | catataaaca | cagatacaca | gtttggatca | acagttaatt | 2940 |
| attcttgtaa | tgaagggttt | cgactcattg | gttccccatc | tactacttgt | ctcgtctcag | 3000 |
| gcaataatgt | cacatgggat | aagaaggcac | ctatttgtga | gatcatatct | tgtgagccac | 3060 |
| ctccaaccat | atccaatgga | gacttctaca | gcaacaatag | aacatctttt | cacaatggaa | 3120 |

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| gagaacggtc | aatatattgc | accagcaaag | atgatcaagt | tgggtgtttg | agcagccctc | 3240 |
| cccctcgggtg | tattttctact | aataaatgca | cagctccaga | agttgaaaat | gcaattagag | 3300 |
| taccaggaaa | caggagtttc | ttttccctca | ctgagatcat | cagatttaga | tgtcagcccc | 3360 |
| ggtttgtcat | ggtaggggtcc | cacactgtgc | agtgccagac | caatggcaga | tgggggcccc | 3420 |
| agctgccaca | ctgctccagg | gtgtgtcagc | cgctccaga | aatcctgcat | ggtgagcata | 3480 |
| ccctaagcca | tcaggacaac | ttttcacctg | ggcaggaagt | gttctacagc | tgtgagcccc | 3540 |
| gctatgacct | cagaggggct | gcgtctctgc | actgcacgcc | ccagggagac | tggagccctg | 3600 |
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| tttctgttcc | tgctgcctgc | ccacatccac | ccaagatcca | aaacgggcat | tacattggag | 4080 |
| gacacgtatc | tctatatctt | cctgggatga | caatcagcta | cacttgtgac | cccggctacc | 4140 |
| tgtagtgagg | aaagggcttc | atcttctgta | cagaccagg | aatctggagc | caattggatc | 4200 |
| attattgcaa | agaagtaaat | tgtagcttcc | cactgtttat | gaatggaatc | tcgaaggagt | 4260 |
| tagaaatgaa | aaaagtatat | cactatggag | attatgtgac | tttgaagtgt | gaagatgggt | 4320 |
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| ataatgcaca | tgaaaaccct | aaagaagtgg | ctatccattt | acattctcaa | ggaggcagca | 4560 |
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| tgcgtcactg | tgaaaccccc | acccttctgc | ctcgtgctaa | acgcacacag | tatctagtca | 4860 |
| ggggaaaaga | ctgcatttag | gagatagaaa | atagtttgga | ttacttaaag | gaataagggtg | 4920 |
| ttgcctggaa | tttctgggtt | gtaagggtgt | cactgttctt | ttttaaaata | tttgtaatat | 4980 |
| ggaatgggct | cagtaagaag | agcttggaaa | atgcagaaa | ttatgaaaaa | taagtcactt | 5040 |
| ataattatgc | tacctactga | taaccactcc | taatattttg | attcattttc | tgcctatctt | 5100 |
| ctttcacata | tgtgtttttt | tacatacgta | cttttcccc | cctagtttgt | ttccttttat | 5160 |
| tttatagagc | agaaccctag | tcttttaaac | agtttagagt | gaaatatatg | ctatatcagt | 5220 |
| ttttactttc | tctagggaga | aaaattaatt | tactagaaag | gcatgaaatg | atcatgggaa | 5280 |
| gagtgggttaa | gactactgaa | gagaaatatt | tggaaaataa | gatttcgata | tcttcttttt | 5340 |
| ttttgagatg | gagtctggct | ctgtctccca | ggctggagtg | cagtggcgta | atctcggtc | 5400 |
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<210> 1173
 <211> 1885
 <212> DNA
 <213> Homo sapiens

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| <400> 1173 | cgggcactca | ccgtgtgtag | ttggcatctc | cgcgcggtccg | gacacccgat | cccagcatcc | 60 |
| | ctgcctgcag | gactgttctg | gttcagctcg | cgctcctgcag | ctgtccgagg | tgtctccagtt | 120 |

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
| ggaggctgag | gttccccgggc | tctgtcgctg | agtgggcggc | ggcaccggcg | gagatgcctg | 180 |
| ggaagaaggc | gcgcaagaac | gctcaaccga | gccccgcgcg | ggctccagca | gagctggaag | 240 |
| tcgagtgtgc | tactcaactc | aggagatttg | gagacaaact | gaacttcggg | cagaaaacttc | 300 |
| tgaatctgat | atccaaactc | ttctgctcag | gaacctgact | gcatcaaaaa | cttgcacatg | 360 |
| gggactcctt | caaaagagtt | ttctcaggag | gtgcacgttt | catcaatttg | aagaaagact | 420 |
| gcattgtaat | tgagaggaat | gtgaagggtg | attcatgggt | gcccttgga | acggaagatg | 480 |
| gaatacatca | aagtgaattt | ctgttcaagt | tttcccagat | tatcattctt | tgggatgaga | 540 |
| gaacattata | aaaccacttt | gtttatttta | aagcaagaat | ggaagaccct | tgaaaataaa | 600 |
| gaagtaatta | ttgacacatt | tcttttttac | ttagagaatc | gttctagtgt | ttttgccgaa | 660 |
| gattaccgct | ggcctactgt | gaaggtagat | gacctgtgat | tagactgggc | ggctggggag | 720 |
| aaacagttca | gtgcattggt | gttggtgctg | tttttggtgt | tttgcttttc | agtccaact | 780 |
| cagcacattg | tatatgattc | ggtttataca | tattaccttg | ttataatgaa | aaaactcatt | 840 |
| ctgagaacac | tgaaatgtta | tactcagtg | tgatttcttc | ggtcactaca | caacgtaaaa | 900 |
| tcatttgttt | cttttgactc | aaattgtatt | gcttctgttc | agatgatctt | tcattcaatg | 960 |
| tgttcctggt | gggcgttact | agaaactatg | gaaaactgga | aaataacttt | gaaaaaattg | 1020 |
| gataaagtat | aggagggtta | cttggggcca | gtaaatcagt | agactgaaca | ttcaatataa | 1080 |
| taaaagaaca | tggggatttt | gtataaccag | ggataataaa | aagaaaaaga | agttaatttt | 1140 |
| taattgatgt | ttttgaaact | tagtagaaca | aatattcaga | agtaacttga | taagatatga | 1200 |
| atgtttctaa | agagtttcta | aagggtcgaa | atgctccttg | tcacattagt | gtgcacacct | 1260 |
| caaaaagtga | tctcttaatg | taaattaaga | atattttcat | aattggaata | tacttttctt | 1320 |
| aaaaaaaaagg | aacagttagt | tctcatctag | aatgaaagtt | ccatatatgc | attggtgaat | 1380 |
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| agtattatat | agcttcttag | taggggtctca | agtaagttca | ttttttttat | ctgggctata | 1500 |
| tacagtcctc | aaataaataa | tgtcttgatt | ttatttcagc | aggaataatt | ttatttattt | 1560 |
| tgctatttta | taattaaagt | atttttcttt | agtttgaaat | gtgtattaaa | gttacatttt | 1620 |
| tgagttacaa | gagtcttata | actacttgaa | tttttagtta | aaatgtctta | atgtaggttg | 1680 |
| tagtcacttt | agatggaaaa | ttacctcaca | tctgttttct | tcagtattac | ttaagattgt | 1740 |
| ttatttagtg | gtagagagat | tttttttttc | agcctagagg | cagctatttt | accatctggt | 1800 |
| atztatggtc | taatttgtat | ttaaacatat | gcacacatat | aaaagttgat | actgtggcag | 1860 |
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<210> 1174
 <211> 2244
 <212> DNA
 <213> Homo sapiens

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| | gccggggcgc | ctgggagttt | gaagcaaaca | ggcagcgcg | gacaatggcg | gtcgctcgtg | 120 |
| | cagctttggg | gccattgggt | acgggtctgt | acgacgtgca | ggctttcaag | tttggggact | 180 |
| | tcgtgctgaa | gagcgggctt | tcctccccc | tctacatcga | tctgcggggc | atcgtgtctc | 240 |
| | gaccgcgtct | tctgagtcag | gttgacagata | ttttattcca | aactgccc | aatgcaggca | 300 |
| | tcagttttga | caccgtgtgt | ggagtgcctt | atacagcttt | gccattggct | acagttatct | 360 |
| | gttcaaccaa | tcaaattcca | atgcttatta | gaaggaaaga | aacaaaggat | tatggaacta | 420 |
| | agcgtcttgt | agaaggaaact | attaatccag | gagaaacctg | tttaatcatt | gaagatgttg | 480 |
| | tcaccagtgg | atctagtgtt | ttggaaactg | ttgaggttct | tcagaaggag | ggcttgaagg | 540 |
| | tcactgatgc | catagtgtct | ttggacagag | agcagggagg | caaggacaag | ttgcaggcgc | 600 |

| | | | | | | |
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| acgggatccg | cctccactca | gtgtgtacat | tgtccaaaat | gctggagatt | ctcgagcagc | 660 |
| agaaaaaagt | tgatgctgag | acagttggga | gagtgaagag | gtttattcag | gagaatgtct | 720 |
| ttgtgggcagc | gaatcataat | ggttctcccc | tttctataaa | ggaagcacc | aaagaactca | 780 |
| gcttcggtgc | acgtgcagag | ctgcccagga | tccaccagct | tgcatcgaag | cttctcaggc | 840 |
| ttatgcaaaa | gaaggagacc | aatctgtgtc | tatctgctga | tgtttcactg | gccagagagc | 900 |
| tgttgcagct | agcagatgct | ttaggacct | gtatctgcat | gctgaagact | catgtagata | 960 |
| ttttgaatga | ttttactctg | gatgtgatga | aggagttgat | aactctggca | aaatgccatg | 1020 |
| agttcttgat | atltgaagac | cgggaagttg | cagatatagg | aaacacagtg | aaaaagcagt | 1080 |
| atgaaggagg | tatcttttaa | atagcttctt | gggcagatct | agtaaagtct | cacgtgggtgc | 1140 |
| caggctcagg | agttgtgaaa | ggcctgcaag | aagtgggcct | gcctttgcat | cgggggtgcc | 1200 |
| tccttattgc | ggaaatgagc | tccaccggct | ccctggccac | tggggactac | actagagcag | 1260 |
| cggttagaat | ggctgaggag | cactctgaat | ttgttggttg | ttttatttct | ggctcccagag | 1320 |
| taagcatgaa | accagaattt | cttcacttga | ctccaggagt | tcagttggaa | gcaggaggag | 1380 |
| ataatcttgg | ccaacagtac | aatagccac | aagaagttat | tggcaaacga | ggttccgata | 1440 |
| tcattcattgt | aggtcgtggc | ataatctcag | cagctgatcg | tctggaagca | gcagagatgt | 1500 |
| acagaaaagc | tgcttgggaa | gcgtatttga | gtagacttgg | tgtttgagtg | cttcagatac | 1560 |
| atttttcaga | tacaatgtga | agacattgaa | gatatgtggt | cctcctgaaa | gtcactggct | 1620 |
| ggaaataatc | caattattcc | tgcttggatt | cttcacacag | gcctgtgtaa | gaatgggttc | 1680 |
| tggagttctc | atggtcttta | ggaaatattg | agtaatttgt | aatcaccgca | ttgatactat | 1740 |
| aataagttca | ttcttaagct | tgcttttttt | gagactgggt | tttgtagac | agccacagtc | 1800 |
| ctgtctgggt | tagggctctc | cacatttgag | gatccttctt | atctctccat | gggactagac | 1860 |
| tgctttgtta | ttctatttat | tttttaattt | ttttcgagac | aggatctcac | tctgttgccc | 1920 |
| aggatggagt | gcagtgggtga | gatcacggct | cattgcagcc | tcgacctccc | aggtgatcct | 1980 |
| cccacctcag | cttcagatt | agctgggtgt | ataggcatgc | accaccacgt | ccatctaaat | 2040 |
| ttctttatta | ttttagaga | tgaggtcttg | ccatgttacc | caggctgggtc | tcaactcctg | 2100 |
| ggctcaagcg | atcctcctgc | ctcagctctt | caaagtgtct | ggattacagg | tgtgagccac | 2160 |
| tgtgcccagc | ctaattgcag | taagacaaaa | attctagggc | accaagaggc | taaagtccgc | 2220 |
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<210> 1175
 <211> 848
 <212> DNA
 <213> Homo sapiens

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| ccctcctgct | agctgtggca | ggagccactt | ctctggtgac | cttggtgctg | gcggtgccta | 120 |
| tactgtcct | ggctgtgctg | gccttagtgc | cccaggatca | gggaggactg | ggtttcagaa | 180 |
| gctgccagag | gaggagccag | aaacagatct | cagccccggg | ctcccagctg | cccacctcat | 240 |
| aggcgctccg | ctgaaggggc | aggggctagg | ctgggagacg | acgaaggaac | aggcgtttct | 300 |
| gacgagcggg | acgcagttct | cggacgccga | ggggctggcg | ctcccgcagg | acggcctcta | 360 |
| ttacctctac | tgtctcgtcg | gctaccgggg | ccgggcgccc | cctggcgggc | gggaccccc | 420 |
| gggccgctcg | gtcacgctgc | gcagctctct | gtaccggggc | gggggcgcct | acgggcccgg | 480 |
| cactcccag | ctgctgctcg | agggcgccga | gacggtgact | ccagtgctgg | acccggccag | 540 |
| gagacaaggg | tacgggcctc | tctggtacac | gagcgtgggg | ttcggcgggc | tgggtgcagct | 600 |
| ccggaggggc | gagaggggtg | acgtcaacat | cagtcacccc | gatatgggtg | acttcgagag | 660 |
| aggaagacc | ttctttgggg | ccgtgatggt | ggggtgaggg | aatatgagtg | cgtgggtgcga | 720 |
| gtgcgtgaat | attggggggc | cggacgccca | ggaccccatg | gcagtgggaa | aaatgtagga | 780 |

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<212> DNA
<213> Homo sapiens

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gcttgagaca cttttcaatg aaagtgtgtg agaaagttca acgaaaaggt acaacatcgt 300
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ccaattctgc tcaggaatgt cagaatctgg agatagagaa gcagaggcgg atagaacgga 540
taaagcagaa gcgggcccg ctgcaagaac ttctcctaca gcaaactcgt ttcaaaaacc 600
tggtacagag aaatcgacaa aatgagcagc aaaccaggg cccgccggct ctgaactcta 660
ccattcagct gccattcata atcatcaata caagcagaaa aacagtcata gattgcagca 720
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aattcc 1266

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<211> 193
<212> DNA
<213> Homo sapiens

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ctgcccagga agagaagatc atagtaagaa attggcccta gtttgggcat tggctccctc 180
tctgtataca taa 193

<210> 1178
<211> 3291
<212> DNA
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catacgtgg cctggaaact tgcacagtct catcatgtca aacaagtgtt ggttgcccca 180
ggaaacgcag gcactgcctg ctctgaaaag atttcaaata ccgccatctc aatcagtgac 240
cacactgccc ttgctcaatt ctgcaaagag aagaaaattg aatttgtagt tgttggacca 300

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| gaagcacctc | tggctgctgg | gattgttggg | aacctgaggt | ctgcaggagt | gcaatgcttt | 360 |
| ggcccaacag | cagaagcggc | tcagttagag | tccagcaaaa | ggtttgccaa | agagtttatg | 420 |
| gacagacatg | gaatcccaac | cgcacaatgg | aaggctttca | ccaaacctga | agaagcctgc | 480 |
| agcttcattt | tgagtgcaga | cttccctgct | ttggttgtga | aggccagtgg | tcttgagct | 540 |
| ggaaaagggg | tgattgttgc | aaagagcaaa | gaagaggcct | gcaaagctgt | acaagagatc | 600 |
| atgcaggaga | aagcctttgg | ggcagctgga | gaaacaattg | tcattgaaga | acttcttgac | 660 |
| ggagaagagg | tgctgtgtct | gtgtttcact | gatggcaaga | ctgtggcccc | catgccccca | 720 |
| gcacaggacc | ataagcgatt | actggaggga | gatggtggcc | ctaacacagg | gggaatggga | 780 |
| gcctattgtc | cagccccctca | ggttttcta | gatctattac | taaaaattaa | agatactgtt | 840 |
| cttcagagga | cagtggatgg | catgcagcaa | gagggtaact | catatacagg | tattctctat | 900 |
| gctggaataa | tgctgaccaa | gaatggcccc | aaagttctag | agtttaattg | ccgttttggg | 960 |
| gatccagagt | gccaagtaat | cctcccactt | cttaaaagt | atctttatga | agtgattcag | 1020 |
| tccaccttag | atggactgct | ctgcacatct | ctgcctgttt | ggctagaaaa | ccacaccgcc | 1080 |
| ctaactgttg | tcattggcaag | ttaaaggttat | cctggagact | acaccaaggg | tgtagagata | 1140 |
| acagggtttc | ctgaggctca | agctctagga | ctggaggtgt | tccatgcagg | cactgccctc | 1200 |
| aaaaatggca | aagtagtaac | tcattgggggt | agagttcttg | cagtcacagc | catccgggaa | 1260 |
| aatctcatat | cagcccttga | ggaagccaag | aaaggactag | ctgctataaa | gtttgaggga | 1320 |
| gcaatttata | ggaaagacgt | cggctttcgt | gccatagctt | tcctccagca | gcccaggagt | 1380 |
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| attgctaaag | cttggtggaa | agctggatgt | gctctccttg | gaggtgaaac | agcagaaatg | 1800 |
| cctgacatgt | atccccctgg | agagtatgac | ctagctgggt | ttgccgttgg | tgccatggag | 1860 |
| cgagatcaga | aactccctca | cctggaaaga | atcactgagg | gtgatgttgt | tgttggaata | 1920 |
| gcttcacatg | gtcttcacat | caatggattt | agccttgatg | ggaaaatcgt | tgcaaaatct | 1980 |
| tcctccagct | actcctctcc | agcacctgat | ggttgtgggt | accagacttt | aggggactta | 2040 |
| cttctcacgc | ctaccagaat | ctacagccat | tcactgttac | ctgtcctacg | ttcaggacat | 2100 |
| gtcaaaagcct | ttgcccata | tactggtgga | ggattactag | agaacatccc | cagagtcctc | 2160 |
| cctgagaaac | ttggggtaga | tttagatgcc | cagacctgga | ggatccccag | ggttttctca | 2220 |
| tggttgcagc | aggaaggaca | cctctctgag | gaagagatgg | ccagaacatt | taactgtggg | 2280 |
| gttggcgctg | tccttgtggg | atcaaaggag | cagacagagc | agattctgag | ggatatccag | 2340 |
| cagcacaagg | aagaagcctg | ggtgattggc | agtgtggttg | cacgagctga | aggttcccca | 2400 |
| cgtgtgaaag | tcaagaatct | gattgaaagc | atgcaaataa | atgggtcagt | gttgaagaat | 2460 |
| ggctccctga | caaatcattt | ctcttttgaa | aaaaaaaagg | ccagagtggc | tgtcttaata | 2520 |
| tctggaacag | gatcgaacct | gcaagcactt | atagacagta | ctcggaacc | aaatagctct | 2580 |
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| cacccatcct | tgctcccttc | ttttaagggt | tcaaatgccc | atgagcaagc | cctggaaacc | 2880 |
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| | | | | | | |
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| attatttttgc | aagaagctgt | tcccgtgaag | aggggtgata | ctgtcgcaac | tctttctgaa | 3000 |
| agagtaaaat | tagcagaaca | taaaatatatt | cctgcagccc | ttcagctggt | ggccagtgga | 3060 |
| actgtacagc | ttggagaaaa | tggcaagatc | tgttgggtta | aagaggaatg | aagcctttta | 3120 |
| attcagaaat | ggggccagtt | tagaaagaat | tatttgctgt | ttgcatgggtg | gtttttttatc | 3180 |
| atggacttgg | cccaaaagaa | aaactgctaa | aagacaaaaa | agacctcacc | cttacttcat | 3240 |
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<210> 1179
 <211> 7364
 <212> DNA
 <213> Homo sapiens

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| gctgctccgc | tctgagcgcc | tggcgcgccc | cgcgcctcc | ctgcgggggc | cgctggggccg | 120 |
| gggatgcacg | cggggcccg | gagccatggt | ccgcttcggg | gacgagctgg | gcggccgcta | 180 |
| tggaggcccc | ggcggcgag | agcgggccc | ggcgggcg | gccggcg | cggggggccc | 240 |
| gggtcccggg | gggtgcagc | ccggccagcg | ggtcctctac | aagcaatcga | tcgcgcagcg | 300 |
| cgcgcggacc | atggcgctgt | acaaccccat | ccgggtcaag | cagaactgct | tcaccgtcaa | 360 |
| ccgctcgctc | ttcgtcttca | gcgaggacaa | cgctcgccgc | aaatacgcga | agcgcacac | 420 |
| cgagtggcct | ccattcgagt | atatgatcct | ggccaccatc | atcgccaact | gcacgtgct | 480 |
| ggccttgag | cagcacctcc | ctgatgggga | caaaacgccc | atgtccgagc | ggctggacga | 540 |
| cacggagccc | tatttcacgc | ggatcttttg | cttcgaggca | gggatcaaaa | tcacgtctct | 600 |
| gggctttgtc | ttccacaagg | gctcttacct | gcggaacggc | tggaacgtca | tggacttcgt | 660 |
| ggtcgtcctc | acagggatcc | ttgccacggc | tggaaactgac | ttcgacctgc | gaacactgag | 720 |
| ggctgtgcgt | gtgctgaggc | ccctgaagct | ggtgtctggg | attccaagtt | tgcagggtggt | 780 |
| gctcaagtcc | atcatgaagg | ccatggttcc | actcctgcag | attgggctgc | ttctcttctt | 840 |
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| ctgtttcccc | aacagcacag | atgcggagcc | cgtgggtgac | ttcccctgtg | gcaaggaggc | 960 |
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| ggtcatcggt | gggagcgtct | ttgaagtggg | ctgggcggcc | atcaagccgg | gaagctcctt | 1860 |
| tgggatcagt | gtgctgcggg | ccctccgcct | gctgaggatc | ttcaaagtca | cgaagtactg | 1920 |
| gagctccctg | cggaaacctg | tgggtgtccct | gctgaactcc | atgaagtcca | tcacagcct | 1980 |
| gctcttcttg | ctcttctgt | tcattgtggg | cttcgccctg | ctggggatgc | agctgtttgg | 2040 |
| gggacagttc | aacttccagg | atgagactcc | cacaaccaac | ttcgacacct | tcctgcccgc | 2100 |

| | | | | | | |
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| catcctcact | gtcttccaga | tcctgacggg | agaggactgg | aatgcagtga | tgtatcacgg | 2160 |
| gatcgaatcg | caaggcggcg | tcagcaaagg | catgttctcg | tccttttact | tcattgtcct | 2220 |
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| ctggcagctg | cgcccgcctc | ccccagcccc | ccccagcccc | cgcccctgca | cgctgtggc | 1140 |
| cctcagggac | tgggagtggg | acggaaaccc | tgccgctggg | gcagccccgt | ggtggggagg | 1200 |
| gaggaagagg | ggcctcacgg | acccccgttt | ggggacctgg | ccaagcagaa | gatgagcagt | 1260 |
| tgectctggg | tgcatccagg | ccccctccatc | ccccatccca | ggcctcaggg | agagccagcc | 1320 |
| ctgacaccag | ctagcaacct | ccttccctcc | ctcccatctc | ctctcccacc | caccagga | 1380 |
| gcctagacac | atttaatcca | tacttattga | gcacctacta | acatgcttga | cccaaaaagc | 1440 |
| ccccgtttcc | tagcagctta | ttgtgggggg | tagataagac | aataagacata | aaaaatgagt | 1500 |
| acagttatct | cctgcgttag | gtgacatgga | aggaaaaagg | cactgagtgc | tggggggtgc | 1560 |
| tgggggtggc | tgcaagtata | gacatcaggg | tagaggttaa | ggtcaggttc | agcctcactg | 1620 |
| gggtgaagtt | tgagcacggt | gagcaggcca | tgagcccgg | gggaggggag | gatgggagga | 1680 |
| ggtggagctt | tccgggcaga | gggaacagcc | agtgcgaagg | cccagggcag | gtggcttaat | 1740 |
| gcagctgttg | ggggaggtga | gtggtaggga | ggaggctgga | gggatggggg | ctgatctcac | 1800 |
| agggccagag | cctggttgac | caaataaggc | cttggccttt | tctgcttggc | tgtcccaaga | 1860 |
| ggatcccaaa | gagaaaaaaa | cgaaagtggg | cttggtcacc | cagcctgccc | cacaccaggc | 1920 |
| cccaccccag | gtgctgagcc | ctctgagccc | ctgctgtct | cccacaggct | ctgccctgca | 1980 |
| ccttaggggt | cgggatgctg | ctggccctgc | caggggcctt | gggctcgggt | ggcagcgagg | 2040 |
| aggacagcgt | gggtccagc | tctgtcaccg | ttgtcctgct | gctgctgctg | ctcctactgc | 2100 |
| tggccactgg | cctagcactg | gcctggcgcc | gcctcagccg | tgactcaggg | ggctactacc | 2160 |
| acccggcccc | cctaggtgcc | gcgctgtggg | gccgcacgcg | gcgcctgctc | tgggccagcc | 2220 |
| ccccaggtcg | ctggctgcag | gcccagagctg | agctgggggtc | cacagacaat | gaccttgagc | 2280 |
| gacaggagga | tgagcaggac | acagactatg | accacgtcgc | ggatgggtggc | ctgcaggctg | 2340 |
| accctgggga | aggcgagcag | caatgtggag | aggcgtccag | cccagagcag | gtccccgtgc | 2400 |
| gggctgagga | agccagagac | agtgcacagg | agggcgacct | ggtcctcggc | tccccaggac | 2460 |
| cagcgagcgc | agggggcagt | gctgaggccc | tgctgagtga | cctgcacgcc | tttgcaggca | 2520 |
| gcgcagcctg | ggatgacagc | gccagggcag | ctggggggcca | gggcctccat | gtcaccgcac | 2580 |
| tgtagaggcc | ggtcttggtg | tcccatccct | gtcacagccg | ctcactcccc | gtgcctctgc | 2640 |
| ttcccaagat | gccatggctg | gactggaccc | ccagcccaca | tgacctatgcc | tcagactgtc | 2700 |
| accccttacc | agttcccaag | tccatgtgta | ccccgctcac | cacgggaacg | gcccccccca | 2760 |
| accacaggca | tcaggcaacc | atttgaaata | aaactccttc | agcctgtggc | cctgtggtcc | 2820 |
| tacagagacc | cctccctcct | ggaccagggg | ctcctcctgg | cacaatccaa | cccaacctg | 2880 |
| cccctaggca | tgagcacaaa | agagccaggt | cagcaccatg | attcagccct | ttaatcttcc | 2940 |
| acgggagcag | ttgagcgagg | ggcgtggcgg | gcggccctcc | gtgcccata | ttcaggggca | 3000 |
| cagctgcccc | agcagacaca | cactttcata | cgactcaca | ccccaccccc | agacacaccc | 3060 |
| ccaggtctct | ggaactggcc | caggggtcctg | ctgctctcac | agccgcagga | caggggtcaa | 3120 |
| gggctaccct | c | | | | | 3131 |

<211> 505
 <212> DNA
 <213> Homo sapiens

<400> 1183
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 aatgcggata tgaagatatg agatgctgcc tctgatccca gggctcactg tgggtttctc 120
 tgttcacagg ggtcctgtcc caggtgcagc tacagcagtg gggcgcagga ctgttgaagc 180
 cttcggagac cctgtccctc acctgcgctg tctatggtgg gtccttcagt ggttactact 240
 ggagctggat ccgccagccc ccagggaagg ggctggagtg gattggggaa atcaatcata 300
 gtggaagcac caactacaac ccgtccctca agagtcgagt caccatatca gtagacacgt 360
 ccaagaacca gttctccctg aagctgagct ctgtgaccgc cgcggacacg gctgtgtatt 420
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<210> 1184
 <211> 847
 <212> DNA
 <213> Homo sapiens

<400> 1184
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 tggttaaaaat tgttctttga cgagccaacc aattagaaag gaaataaggt gaaggctatt 180
 ttacatgtat gcgtcactga cacattgccc aatcagagct ggatattttg aattctttat 240
 ttgcatgaaa ggcctataaa aggagagact ctagacacga gcttttattt aagtgcgttc 300
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 caagcgcagt cgtaaggaga gctactccgt gtatgtgtac aagggtgctaa aacaggttca 480
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 cttcgaacgc atcgcaggcg aggttcccg tctggcccac tacaacaagc gctcgaccat 600
 tacctccagg gagatccaga ccgccgtgcy tctgctgctt cccggagagc tggccaagca 660
 cgcagtgtcc gaaggtagca aggctgtcac caagtataca agctccaagt aaatgtgtgc 720
 ttaggtgctt taaaactcaa aggtctttt cagagccact caagtctcac ataaagagct 780
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 gcacttt 847

<210> 1185
 <211> 1636
 <212> DNA
 <213> Homo sapiens

<400> 1185
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 gcaccagcaa cgggacggca cggttgcccc agctgggcac tgtagggtcaa tctccctaca 180
 cgagcgcccc gccgtgtcc cacaccccca atgccgactt ccagccccc aacttcccc 240
 caccctacca gcctatctac cccagtcgc aagatcctta ctcccacgtc aacgaccctt 300
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 ggcagagcca ggagtctggg ctctgcaca cgcaccgggg gctgcctcac cagctgtcgg 420
 gcttgatcc tcgcaggac tacaggcggc acgaggacct cctgcacggc ccacacgcgc 480
 tcagctcagg actcggagac ctctcgatcc actccttacc tcacgccatc gaggaggtcc 540
 cgcagttaga agaccgggt attaacatcc cagatcaaac tgtaattaag aaaggccccg 600
 tgtccctgtc caagtccaac agcaatgccg tctccgccat ccctattaac aaggacaacc 660

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|------------|------------|------------|------------|------------|------------|------|
| tcttcggcgg | cgtggtgaac | cccaacgaag | tcttctgttc | agttccgggt | cgcctctcgc | 720 |
| tcctcagctc | cacctcgaag | tacaaggta | cgggtggcga | agtgcagcgg | cggctctcac | 780 |
| cacccgagtg | tctcaacgcg | tcgctgctgg | gcggagtgct | ccggagggcg | aagtctaaaa | 840 |
| atggaggaag | atctttaaga | gaaaaactgg | acaaaatagg | attaaatctg | cctgcagggg | 900 |
| gacgtaaagc | tgccaacggt | accctgctca | catcactagt | agagggagaa | gctgtccacc | 960 |
| tagccagggg | ctttgggtac | gtgtgcgaaa | ccgaatttcc | tgccaaagca | gtagctgaat | 1020 |
| ttctcaaccg | acaacattcc | gatcccaatg | agcaagtgcg | aagaaaaaac | atgctcctgg | 1080 |
| ctacaaaaca | gatatgcaaa | gagttcaccc | acctgctggc | tcaggaccga | tctcccctgg | 1140 |
| ggaactcacg | gccccacccc | atcctggagc | ccggcatcca | gagctgcttg | accacttcca | 1200 |
| acctcatctc | ccacggcttc | ggcagccccg | cgggtgtgtg | cgcggtcacg | gccctgcaga | 1260 |
| actatctcac | cgaggccctc | aaggccatgg | acaaaatgta | cctcagcaac | aacccaaca | 1320 |
| gccacacgga | caacaacgcc | aaaagcagtg | acaaagagga | gaagcacaga | aagtgaggct | 1380 |
| ctcctcccgc | cccgcacctc | ccacgcctca | ccagcccccc | gcgcgcccac | cctccggcgg | 1440 |
| gtgacagctc | cgggatcagc | aacccttcct | gctgctgcta | ctgctgctgc | tgctgccgcc | 1500 |
| gccgcgcgcg | ccgctgccct | tgggtccccc | cgagtctccg | ggactgccct | ctcgactgtc | 1560 |
| agtggggcag | cctctccgac | tctgcacccg | cctcgacctc | cccacccgct | cccacacccc | 1620 |
| tgtgcccccg | gaattc | | | | | 1636 |

<210> 1186
 <211> 2262
 <212> DNA
 <213> Homo sapiens

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| <400> 1186 | | | | | | |
| gaattccggc | gcgctgcgac | cgttgggggt | ttgttcgcgg | gggtcacagc | tctcatggct | 60 |
| gcagctagcg | tgaccccccc | tggtcccttg | gagttgctac | agcccggctt | ctccaagacc | 120 |
| ctcctgggga | ccaagctgga | agccaagta | ctgtgctccg | cctgcagaaa | cgtcctccgc | 180 |
| aggcccttcc | aggcgcagtg | tggccaccgg | tactgtctct | tctgcctggc | cagcatcctc | 240 |
| agctctgggc | ctcagaactg | tgctgcctgt | gttcacgagg | gcatatatga | agaaggcatt | 300 |
| tctatttttag | aaagcagttc | ggccttccca | gataatgctg | ccgcagggga | ggtggagagc | 360 |
| ctgccggccg | tctgtccca | tgatggatgc | acctggaagg | ggaccctgaa | agaatacagag | 420 |
| agctgccacg | aaggccgctg | cccgtcatg | ctgaccgaat | gtcccgcgtg | taaaggcctg | 480 |
| gtccgccttg | gtgaaaagga | gcgccacctg | gagcacgagt | gcccggagag | aagcctgagc | 540 |
| tgccggcatt | gccgggcacc | ctgctgcgga | gcagacgtga | aggcgcacca | cgaggtctgc | 600 |
| ccaagttcc | ccttaacttg | tgacggctgc | ggcaagaaga | agatcccccg | ggagaagttt | 660 |
| caggaccacg | tcaagacttg | tggcaagtgt | cgagtccctt | gcagattcca | cgccatcggc | 720 |
| tgctctgaga | cggtagaggg | tgagaaacag | caggagcacg | aggtgcagtg | gctgcgggag | 780 |
| cacctggcca | tgctactgag | ctcgggtgctg | gaggcaaagc | ccctcttggg | agaccagagc | 840 |
| cacgcggggg | cagagctcct | gcagaggtgc | gagagcctgg | agaagaagac | ggccactttt | 900 |
| gagaacattg | tctgcgtcct | gaaccgggag | gtggagaggg | tggccatgac | tgccgaggcc | 960 |
| tgacgccggc | agcaccggct | ggaccaagac | aagattgaag | ccctgagtag | caaggtgcag | 1020 |
| cagctggaga | ggagcattgg | cctcaaggac | ctggcgatgg | ctgacttgga | gcagaaggctc | 1080 |
| aggcccttcc | aggcgcagtg | tggccaccgg | tactgtctct | tctgcctggc | cagcatcctc | 1140 |
| aggaagctcc | aggaagctgt | ggctggccgc | ataccgcgca | tcttctcccc | agccttctac | 1200 |
| accagcaggt | acggctacaa | gatgtgtctg | cgtatctacc | tgaacggcga | cggcaccggg | 1260 |
| cgaggaacac | acctgtccct | cttctttgtg | gtgatgaagg | gcccgaatga | cgcctgtctg | 1320 |
| cgggtggccct | tcaaccagaa | ggtgacctta | atgctgctcg | accagaataa | ccgggagcac | 1380 |

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| gtgattgacg | ccttcaggcc | cgacgtgact | tcctcctctt | ttcagaggcc | agtcaacgac | 1440 |
| atgaacatcg | caagcggctg | ccccctcttc | tgccccgtct | ccaagatgga | ggcaaagaat | 1500 |
| tcctacgtgc | gggacgatgc | catcttcac | aaggccattg | tggacctgac | agggctctaa | 1560 |
| ctgcccccta | ctggtgtctg | ggggttgagg | gcagccaggc | acagccggct | cacggagggg | 1620 |
| ccaccacgct | gggccagggt | ctcactgtac | aagtgggcag | gggccccgct | tgggcgcttg | 1680 |
| ggaggggtgc | ggcctgcagc | caagttcact | gtcacggggg | aaggagccac | cagccagtcc | 1740 |
| tcagatttca | gagactgcgg | aggggcttgg | cagacgggtc | tagccaaggg | ctgtggtggc | 1800 |
| attggccgag | ggtcttcggg | tgcttcccag | cacaagctgc | ccttgctgtc | ctgtgcagtg | 1860 |
| aaggagagag | ccctgggtgg | gggacactca | gagtgggagc | acatcccagc | agtgcccatg | 1920 |
| tagcaggagc | acagtggatg | gccttgtgtc | cctcgggcat | gacaggcaga | aacgagggct | 1980 |
| gctccaggag | aagggcctcc | tgctggccag | agcaagggaag | gctgagcagc | ttggttctcc | 2040 |
| cctctggccc | ctggagagaa | gggagcattc | ctagaccctt | gggtgcttgt | ctgcacagag | 2100 |
| ctctggtctg | tgccaccttg | gccaggctgg | ctgtgggagg | gtctggtccc | acgccgcctc | 2160 |
| tgctcagaca | ctgtgtggga | gggcacagca | cagctgcggg | taaagtgtga | gagcttgcca | 2220 |
| tccagctcac | gaagacagag | ttattaaacc | attacaaatc | tc | | 2262 |

<210> 1187
 <211> 3683
 <212> DNA
 <213> Homo sapiens

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| cagggggcaa | ccggaccccg | cccgacccca | tggcgcccg | cgccgtctgg | gccgcgctgg | 120 |
| ccgtcggact | ggagctctgg | gctgcggcgc | acgccttgcc | cgccagggtg | gcatttacac | 180 |
| cctacgcccc | ggagcccggg | agcacatgcc | ggctcagaga | atactatgac | cagacagctc | 240 |
| agatgtgctg | cagcaaatgc | tcgcccggcc | aacatgcaaa | agtcttctgt | accaagacct | 300 |
| cggacaccgt | gtgtgactcc | tgtgaggaca | gcacatacac | ccagctctgg | aactgggttc | 360 |
| ccgagtgtct | gagctgtggc | tcccgtgtga | gctctgacca | ggtggaaact | caagcctgca | 420 |
| ctcgggaaca | gaaccgcac | tgacactgca | ggcccggctg | gtactgcgcg | ctgagcaagc | 480 |
| aggaggggtg | ccggctgtgc | gcgcccgtgc | gcaagtgcgc | cccgggcttc | ggcgtggcca | 540 |
| gaccaggaac | tgaaacatca | gacgtggtgt | gcaagccctg | tgccccgggg | acgttctcca | 600 |
| acacgacttc | atccacggat | atttgcaggc | cccaccagat | ctgtaacgtg | gtggccatcc | 660 |
| ctgggaatgc | aagcatggat | gcagtctgca | cgccacgcgc | ccccacccgg | agtatggccc | 720 |
| caggggcagt | acacttaccc | cagccagtgt | ccacacgac | ccaacacacg | cagccaactc | 780 |
| cagaacccag | cactgctcca | agcacctcct | tcctgctccc | aatgggcccc | agccccccag | 840 |
| ctgaagggag | cactggcgac | ttcgtctctc | cagttggact | gattgtgggt | gtgacagcct | 900 |
| tgggtctact | aataatagga | gtggtgaact | gtgtcatcat | gaccaggtg | aaaaagaagc | 960 |
| ccttgtgcct | gcagagagaa | gccaaagggt | ctcacttgcc | tgccgataag | gcccggggta | 1020 |
| cacagggccc | cgagcagcag | cacctgctga | tcacagcgcc | gagctccagc | agcagctccc | 1080 |
| tggagagctc | ggccagtgcg | ttggacagaa | gggcgcccac | tcggaaccag | ccacaggcac | 1140 |
| caggcgtgga | ggccagtggg | gccggggagg | cccggggccag | caccgggagc | tcagattctt | 1200 |
| cccctggtgg | ccatgggacc | caggtcaatg | tcacctgcat | cgtgaacgtc | tgtagcagct | 1260 |
| ctgaccacag | ctcacagtgc | tcctcccaag | ccagctccac | aatgggagac | acagattcca | 1320 |
| gcccctcgga | gtccccgaag | gacgagcagg | tccccttctc | caaggaggaa | tgtgcctttc | 1380 |
| ggtcacagct | ggagacgcca | gagaccctgc | tggggagcac | cgaagagaag | cccctgcccc | 1440 |
| ttggagtgcc | tgatgctggg | atgaagccca | gttaaccagg | ccggtgtggg | ctgtgtcgta | 1500 |
| gccaaggtgg | gctgagccct | ggcaggatga | ccctgcgaag | gggccctggt | ccttcagggc | 1560 |

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| ccccaccact | aggactctga | ggctctttct | gggccaagtt | cctctagtgc | cctccacagc | 1620 |
| cgcagcctcc | ctctgacctg | caggccaaga | gcagaggcag | cgagttgggg | aaagcctctg | 1680 |
| ctgccatggt | gtgtccctct | cggaaggctg | gctgggcatg | gacgttcggg | gcatgctggg | 1740 |
| gcaagtccct | gactctctgt | gacctgcccc | gccagctgc | acctgccagc | ctggcttctg | 1800 |
| gagcccttgg | gttttttgtt | tgtttgtttg | tttgtttggt | tgtttctccc | cctgggctct | 1860 |
| gcccagctct | ggcttccaga | aaaccccagc | atccttttct | gcagaggggc | tttctggaga | 1920 |
| ggagggatgc | tgcttgagtc | acccatgaag | acaggacagt | gcttcagcct | gaggctgaga | 1980 |
| ctgcgggatg | gtcctggggc | tctgtgtagg | gaggaggtgg | cagccctgta | gggaacgggg | 2040 |
| tccttcaagt | tagctcagga | ggcttggaag | gcatcacctc | aggccaggtg | cagtggctca | 2100 |
| cgcctatgat | cccagcactt | tgggaggctg | aggcgggtgg | atcacctgag | gttaggagtt | 2160 |
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| cttgtccttt | tgtaccatgg | tgtgaaagtc | agatgccag | agggccccagg | caggccacca | 2460 |
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| taaaaaagta | agtaccactc | aggccaacaa | gccaacgaca | aagccaaact | ctgccagcca | 2580 |
| catccaaccc | cccacctgcc | atttgcaccc | tccgccttca | ctccggtgtg | cctgcagccc | 2640 |
| cgcgcctcct | tccttgctgt | cctaggccac | accatctcct | ttcagggaat | ttcagggaact | 2700 |
| agagatgact | gagtcctcgt | agccatctct | ctactcctac | ctcagcctag | accctcctcc | 2760 |
| tccccagag | gggtgggttc | ctcttcccca | ctccccacct | tcaattcctg | ggccccaaac | 2820 |
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| ccaccctgga | atcaagatgt | cagactggct | ggctgcagtg | acgtgcacct | gtactcagga | 3300 |
| ggctgagggg | aggatcactg | gagcccagga | gtttgaggct | gcagcgagct | atgatcgcg | 3360 |
| cactacactc | cagcctgagc | aacagagtga | gacctgtct | cttaaagaaa | aaaaaagtca | 3420 |
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| gcacctgccc | cctggtggac | agtcctggga | gaacctcagg | cttccttggc | atcacagggc | 3540 |
| agagccggga | agcgatgaat | ttggagactc | tgtggggcct | tggttccctt | gtgtgtgtgt | 3600 |
| gttgatccca | agacaatgaa | agtttgcact | gtatgctgga | cggcattcct | gcttatcaat | 3660 |
| aaacctgttt | gttttaaaaa | aaa | | | | 3683 |

<210> 1188
 <211> 527
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1188 | ttggggctgt | gctgggtttt | cctcgttgct | cttttaagag | gtgtccagtg | tcagggtgcag | 60 |
| | ctggtggagt | ctgggggagg | cgtggtccag | cctgggaggt | ccctgagact | ctcctgtgca | 120 |
| | gtctctggac | tcacctttag | tagctatggt | atgcactggg | tccgccaggc | tccaggcaag | 180 |
| | gggctgcagt | gggtggcagc | tatatcatat | gatggaagta | ataaatacta | cgcagactcc | 240 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttgaagggcc | gattcaccat | ctccagagac | aattccaaga | acacgctgta | tctgcaaagt | 300 |
| aacagcctga | gatctgagga | cacggctgtg | tattactgtg | cgagaggggc | ggggattact | 360 |
| gatttttggg | gtggttatta | cgtcaactgg | ttcgaccctt | ggggccaggg | aaccctggtc | 420 |
| accgtctcct | cagcttccac | caagggccca | tcggtcttcc | ccctggcgcc | ctgctccagg | 480 |
| agcacctctg | ggggcacagc | ggccctgggc | tgcttggtca | aggacta | | 527 |

<210> 1189
 <211> 531
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-------------|-----|
| <400> 1189 | aaaacaatga | gatagcttta | catttcccct | ttgtttgaat | gagaaaatgg | atcttggggt | 60 |
| | gctatgctag | aacacttgta | gattgctggg | tcctttgtaa | gggggccatg | gacacaccac | 120 |
| | actttctttc | aatccttaca | tttgaagcat | tgatattctt | caaaaccttc | ttgttacatg | 180 |
| | tgcgcaatag | aaattttctaa | tgttcatgac | ttttatcttt | cctgtccatc | aattcactgg | 240 |
| | ttgtaaatgc | ttcctgagag | ctgtctaggt | ctgtatccca | gattgttgct | taatgacatc | 300 |
| | tgacagatgc | attgttttct | gaaatcagct | taagacacca | attgtggcaa | ctgggaaact | 360 |
| | cattacctgc | tgcatgggat | caactatggg | aagggtggga | gcaggggggtg | gggcggagggt | 420 |
| | caccctaacc | aatcaatgga | agggcaactc | acacctgggt | cccaagcctc | agctttgaga | 480 |
| | aacaaacacg | tttataagga | aaaaatatat | aggcncatta | ttaccggaag | t | 531 |

<210> 1190
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-------------|-----|
| <400> 1190 | aagaagtggc | ccctctgcaa | catgtcctca | cagaaacgaa | atgggtgtgta | gcaatcaaca | 60 |
| | ctagaaagta | gaccttttgc | aaattaatat | gtccttgacc | ttttttgccc | ttttgtgggg | 120 |
| | gtgaggtggg | gataaaaaga | ctgtcatatc | aagaactgtg | acttttcttt | ccctcaaaca | 180 |
| | atanaactcc | tttattatct | taatgtctcc | atgttaacat | gtttgtctgct | aaattacaat | 240 |
| | gtagaattga | taatggttta | tagtgaactg | tgctcttccc | tcattaaaat | cccaggggtgc | 300 |
| | cctggtaaag | atgcagatgt | ttcttctctga | aaacttcttt | ttttacaaag | aaaattagat | 360 |
| | gtacatgtat | aattcagtgt | gctttgtctt | tctccagatt | aatatcggtt | acactgctga | 420 |
| | tgtttgtana | ttanacagat | atttactt | | | | 448 |

<210> 1191
 <211> 333
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-------------|-----|
| <400> 1191 | caactgctaa | ccccatcct | catatttctg | tctgtcccag | cacctcagga | gcattctcat | 60 |
| | tgtggccggc | taactccgcc | tggtatgtgaa | caggcaagca | cagtgggaaa | tgagtcacgt | 120 |
| | acttgtattg | cacagtggac | acctctagag | gtccattggg | ttaaagggat | aggggaaggag | 180 |
| | gagggatgag | accatcacc | cctcccagaa | gtaaatctag | tatctgagtt | ttctttatgc | 240 |
| | ccttgagtca | aactaataac | tgtctagtag | ggaggtgttt | gctgggttttc | ttcgggtgttt | 300 |
| | tttctaattg | aataaactca | tttctgcctg | ctg | | | 333 |

ggaacctttg ttcagggcctt agggggagaac aggccacatg gcaacagcca cacagtcatt 180
gccttcacac agagccacgt gtcccaaaca gcatagtcac gccttgtcag ctggatctaa 240
ttgtcatagt cgtgctcttc ctgtagact 269

<210> 1196
<211> 518
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1196
actcaatagt tgagtttggc tgttgttgca ggaaaatgat tataactaaa agctctctga 60
tagtgcagag acttaccaga agacacaagg aattgtactg aagagctatt acaatccaaa 120
tattgccgtt tcataaatgt aataagtaat actaattcac agagtattgt aaatgggtgga 180
tgacaaaaga aaatctgctc tgtggaaaga aagaactgtc tctaccaggg tcaagagcat 240
gaacgcacat atagaaagaa ctccggggaaa catcccatca acaggactac acacttgtat 300
atacattctt ggagaacact gcaatgttga aaatccacgt ttgtctattta taaacttgtc 360
cttagattaa tgtgtctgga cagattgtgg gagtaagtga ttcttctaag aattagatac 420
ttgtcactgc ctatacctgc agctggactg aatgggactt cgtatgggta atagttgggt 480
cnggataaat ccatgccaat taaaggtaaa gtgatgcc 518

<210> 1197
<211> 466
<212> DNA
<213> Homo sapiens

<400> 1197
gtccagtgcc aaaaatttta gagtttgaga aggtcacaga aatcctctag ttggtgcctc 60
cacagtcttc aattttacag aggaactcag ggctaattgga gttaatgcaa ctagatcagg 120
gttttgggtc tgtgttcttt ctaccgtcag cacctgtgtg gtcaattctg gacacttccc 180
agagaagtct ttgagtagag aatcctactc aaatttctact gtatatttta agcattcctc 240
tcctttccct ttgcctcccc tgttgccctt tcttcccctg atttctctc tggatcatctc 300
ctctcccttc tgcgtgtaag ccatgggaaa gggatgaggg aggacagctt ctggttaaac 360
acaggccctt ctccacatc aaatgaacat tggcttctg ggacagaagg ccttcaaagg 420
agggattgca aagcaaggca aagcgttctg tcttcatttt ccccat 466

<210> 1198
<211> 905
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1198
atacactcag tgcagcctta agcaaatgag atcattttca gatttcattt tttttttcag 60
tctttctact tttgtaataa taggaagtta gtaggactca cttctctgat taataagcaa 120
tttgagcac acagcggttc actgcggggt ttcacgctca cctgaaaaca cctgttccca 180
acctacttct tgggtgcaagt tgaccaaact gtttttaagt gtaacttttt ccaaccgtag 240
cagggttggtt ttctgttaag caaagccgag atccagtgca atacctggac tgtcacctgc 300
ctgtgagtgg tgtacacaat gggaagataa taagccgtgg tgttttgctg tctgtctgtg 360
tcacaagcat gaaaacccgt gtgtcattga tcagcaccat ttgtggatg ttccgtgatg 420
agcgtttagt gagcctgctg gctgcagagc actatgaaat catggtacgt agtccccggc 480

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| acctgtcgtt | attcctatat | cctcctgcaa | ctgtggtttg | aaactgcgca | ttctctagta | 540 |
| gtatatatcg | tgccctgtctt | caaaacatgt | ccctttttat | actcattccc | ccaggcatgg | 600 |
| ggtagtgcta | gtcgactgac | agggacacgg | gttcagtggc | ttggccctat | ctggaacgct | 660 |
| gcctgtacga | tngtatgggt | gctcaatccg | tgttcctagc | gtctacgagg | ctaaacgggg | 720 |
| atggagttac | cacntctagc | gcggatgcat | cncatgaaag | gaagcacctt | gtggaccggc | 780 |
| acggtactgg | atcacaagag | gtgttattgt | aatagagctt | atgaaacgcc | ccttgtataa | 840 |
| aagattgcgg | ccttgtttgc | ggtgggtggag | gattcactgt | ggcccttgcg | aggcgtccct | 900 |
| tttta | | | | | | 905 |

<210> 1199
 <211> 468
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| <400> 1199 | | | | | | |
| gcgaatactt | tattatcgag | tgactgggtat | tagctttttg | tctgggcatt | aatatctcaa | 60 |
| aaaccataca | ccaaaccag | gcttttccac | ctagctctgc | tgtatcattt | tctttatata | 120 |
| tatatataaa | aagtaaggaa | gaggaaggag | gaagagaaag | aaaatatatc | tgtattgaaa | 180 |
| gaattataag | ccaaagtgcg | tctttcttgt | tttgtccata | tacacacatt | gcaccataca | 240 |
| taaatagata | cattgtaaaa | atgactccat | aattacaagt | ataatatata | tttccatata | 300 |
| atatataaaa | ctttatatta | aatctaggta | gatgatctct | ggggggggtt | tgtccgtggg | 360 |
| ggctgtgtct | ctgggcatcg | gcactctcga | ggccggcagt | aggcgggtggc | gcggcctccc | 420 |
| accgctcct | cccgcggggg | cgccactatc | tggggttgtt | gaggagat | | 468 |

<210> 1200
 <211> 423
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1200 | | | | | | |
| gttcttttga | atacttaatg | acagaacaaa | tacttggcaa | actcctttgc | tctgctgtca | 60 |
| tctgtgttac | ccttgtcaat | ccatggagct | ggttcactgt | aactagcagg | ccacaggaag | 120 |
| caaagccttg | gtgcctgtga | gctcatctcc | caggatgggtg | actaagtagc | ttagctagtg | 180 |
| atcagctcat | cctttaccat | aaaagtcac | attgctgttt | agcttgactg | ttttcctcaa | 240 |
| gaacatcgat | ctgaaggatt | cataaggagc | ttatctgaac | agatttatct | aagaaaaaaa | 300 |
| aaaaacgaca | taaaataagt | gaaacaacta | ggaccaaat | acagataaac | tagttagctt | 360 |
| cacagcctct | atggctacat | ggttcttctg | gccgatggta | tgacacctaa | gttagaacac | 420 |
| agc | | | | | | 423 |

<210> 1201
 <211> 103
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1201 | | | | | | |
| cagctcacgc | gggacctggc | cgccctcccg | agtctcttca | agcagctgcc | cagcccggcc | 60 |
| ttcctgccgg | ccgccgggac | agcagactgc | cggtaacgcg | cgg | | 103 |

<210> 1202
 <211> 431
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1202 | | | | | | |
| cagaggcttt | agaaatttat | tacaaggccc | tcatagtaga | aataaaaaata | tagatatcta | 60 |
| tgtttcccat | ctcgtctca | gtggttcgaa | taacaagtgc | aagtaacaaa | atagattgtc | 120 |
| tctataattc | gcaaactggg | agttcatggg | tacagagcaa | cttcagcccc | agctcccaag | 180 |
| tcccaaagtg | tggtcttgtc | gagggtgcag | acaaggacca | accaagttca | accaagtctc | 240 |

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| tcgtatgcag | acgccagctc | cagtctcaag | gaggggtgggg | cttgcagtca | gtctcactcc | 300 |
| acccccgagt | ggacagtctg | gaccctccgt | gatggggaag | gcggcacgtg | ccccgccact | 360 |
| ccggcttctg | ctccatccca | aggcctcage | ttcggggggtc | ctgtctcctg | ctggcctggg | 420 |
| tcccccttct | c | | | | | 431 |

<210> 1203
 <211> 190
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1203 | | | | | | |
| tttcagactt | tttgggtgcta | gtatatagaa | ataccattga | tttttgttta | ttgatcttat | 60 |
| atcctgtgac | ctgtctaaat | tcaatctgtt | agttttatca | ttttttaaaa | aaatgtccgt | 120 |
| gtgtgtcttc | cttgagattt | tctacattat | catgtcatct | gcaaataaag | acatttactt | 180 |
| ctttctttcc | | | | | | 190 |

<210> 1204
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 1204 | | | | | | |
| ggcccacaag | ggtgcccacc | tcttgttttc | cccttttaaa | aactcagatt | tttaaaagcc | 60 |
| ctttccaaag | gtttcaactg | taaaatactt | ctttttacaa | tgtatcaaca | tattttttatt | 120 |
| taaggggaat | taacaattgc | cagggaaacc | agccaaccca | agtttattat | atcattaacc | 180 |
| ttatcataaa | ttcaaacctt | agttgctgga | ccctgggtgtg | aggncataaa | tcttccaaag | 240 |
| ttttgcctat | cctaagagct | gcatttttct | actgctcttt | accttgcatt | ttagctaatt | 300 |
| taggag | | | | | | 306 |

<210> 1205
 <211> 490
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1205 | | | | | | |
| gaaggtcctc | cctaagagtc | tcttgacaaa | agtatactta | ttgaacacct | ctatgtgcc | 60 |
| ggctctgtgt | tgggtacttt | gatcaatgcc | cctgtttcag | tctcatctgt | actcacggca | 120 |
| gccctgtgga | gtacggtgta | ctggcccagc | ttacagatgc | agaaagcgag | acgttctgcc | 180 |
| atcagataaa | gtcacgtggc | tctttagtaa | cacggacaag | gtcctcgcgc | aaggaaactg | 240 |
| tggcagaaga | gggcagcagt | tggcagtagc | tgccgatgtc | tgtccccagc | tccaccattc | 300 |
| ctccctgtgg | ctgtgcatgc | tcgtggtttc | agtgtccgtg | tgtccatgtg | tctgcccttc | 360 |
| aggagctcgc | agctgggtgtg | cttggcggtc | ccaggcctgt | gtagtgtctc | tcccctgctg | 420 |
| cgggcgcgcc | caccccgatt | cctctcccca | gaagcgggtg | gatggggccc | atgaactgca | 480 |
| gcagcatgct | | | | | | 490 |

<210> 1206
 <211> 319
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1206 | | | | | | |
| aagcattaca | gacagatgga | gccatctatc | caagaagcct | tactcacct | tactgtctgc | 60 |
| tgttgcaact | cggctgttct | ggactctgat | gtgtgtggag | ggatggggaa | tagaacattg | 120 |
| actgtgttga | ttaccttcac | tattcggcc | gcctgacctt | ttaataactt | tgtaaaaagc | 180 |
| atgtatgtat | ttatagtgtt | ttagattttt | ctaactttta | tatcttaaaa | gcagacacct | 240 |
| gtttaagcat | tgtaccctta | ttgttaaaga | tttgtgtcct | ctcattccct | ctcttccctt | 300 |

tgtaagtgcc cttctaata

319

<210> 1207
<211> 487
<212> DNA
<213> Homo sapiens

<400> 1207
cggaagggac agtatcgttt gtttatgaaa tgccactggg acagctggct gggccttcac 60
caagcaagtc ctttcagact ggcccttaag ccaaactcag gcccagaatt gcagttcaga 120
atggcagtc tggaggcagg gggtagggg caggtctagt gttcctgcac caaacctaag 180
tccttccacc tgccaccccc ttccctggga gggaggtggt cctcctatct ccctggctca 240
ctggcaggtg tgggatctgg ggagagcggc tggagaaaga tgcagtcctc aggaaggggg 300
ccgccaccct cccctatgct ggtagatgct gaggccccta ggtgccagg gccagtggga 360
ccctctcaga accaaatctt tcccctttct cggggcttgg ggctcgggcc gtaggggctc 420
ctgagtgtca tgaagtgcac aggagccaaa tgaccgagcc ctggagagcc catggtggg 480
taggtgg 487

<210> 1208
<211> 342
<212> DNA
<213> Homo sapiens

<400> 1208
tttgaccaaa gtcggtgctg cacttgacgc agtgtgtttt aggtgtttgt ctttgtactt 60
ttttgtgatt tttgaatgca cgtgcgacagg aagggtcctt cttagagaag cagtcaaact 120
gtgaagcact aagctgaccc tgcttcaagc aattttgttt ttacaactgt tcctttcaca 180
agcaagcctt aaaaaaaaaaag aaagacaact tcctttttct tcagctccca caccctattt 240
ttcttagcag actgcagtca atccacattc aatgaaaagt atataatgcc catttttata 300
tgcacgtttt taaacttcca agttctgaaa attgtttact gg 342

<210> 1209
<211> 232
<212> DNA
<213> Homo sapiens

<400> 1209
ttaattcaaa acatgttaaa cgttactttc atgtactatg gaaaagtaca agtaggttta 60
cattactgat ttccagaagt aagtagtttc ccctttccta gtcttctgtg tatgtgatgt 120
tgtaatttc ttttattgca ttataaaata aaaggattat gtatttttaa ctaaggtgag 180
acattgatat atccttttgc tacaagctat agctaattgt ctgagcttgt gc 232

<210> 1210
<211> 409
<212> DNA
<213> Homo sapiens

<400> 1210
gggtttcttt gtacttggtta aaccacattt gaggtttatg gtaaaaatca tcttttgagt 60
ttgctctttg gtttttcttc attccttttg aggattggga aaacagaaag attccttgat 120
ttgggtaatg aagaggtaat ttgggacagt gtgggtgtac aggaagaaag aggattggaa 180
aggccagtac tgttttagtt gtcggcact gttggttttg ttttaatgtg gttgccctgt 240
ccactacatg gttctatcag tagtgtaatc cattttcaat gtaaagctct ttagtttttt 300
gtcatagaca taaattaata ttttgagagg catccctcac ctgttcattt cttctgtgtt 360
gaaatgaagt acttaaaatt accgttatac atgaactttg tggactgta 409

<210> 1211
<211> 586
<212> DNA
<213> Homo sapiens

<400> 1211
 agaataaaacc aggcctggtt cttttccctt gaaatccctg cctctgggtc ctaaaccat 60
 catctaaggt gacagagcag tgctggaata gcatctcctt tcactttccc aaaactgcc 120
 cagatagctg ccaactggatg ctctttgatt cctggaagca aacgtgggac tgtcggagga 180
 aagggattgt tctggtctta ctcataactg ggtggtttga gggtgactga agtcgtgctt 240
 ttctgtgtg tgctgccagc acagggctgt aaatgcagat attgcgcctg tgtgcgtgtg 300
 tataagtcaa gctccaagag gctcctgaat gtgactggcg tgctgagaat gtgtttacgc 360
 tgtttaatgt ctgccaggtg agggttacac tgaagatgca caatccctaa aataaagatc 420
 accacttccc caaagaagca gccctcgggt ccatgtgttg ttccagacatg tgaagagaag 480
 caagacagag ggtctcagat ggacgagggc tctccaaggg aatgcctggg gattcaccca 540
 gtggtcccca gaggtgctcc atggaggcaa caagtcattc catgaa 586

<210> 1212
 <211> 335
 <212> DNA
 <213> Homo sapiens
 <400> 1212
 tccctccctg ggcccggcct ggaccctgca ggtgcctgtc cccagcacca accccactca 60
 tgccccatcg tctcccaga caaatgaaac cacgctgcgc ttccgatgcc cccgctagcc 120
 gtgtaatggt tcagctaata ccatggcgag atgggggctc actccggagg agagccaggc 180
 agcagggcct tctgaccaa cagccagctc tgtccttccc cccaggaaac acatgttcat 240
 ttgtgtgatc atgtatagac ctcaaacgg aagataggac tgtatataat tgtaataaat 300
 accagttgcc actaaaaaaaa aaaaaaaaaa aaacc 335

<210> 1213
 <211> 190
 <212> DNA
 <213> Homo sapiens
 <400> 1213
 tgggcaccat taatacctag gacaggtgaa aggggtccaga aagacaccat tggtaatggc 60
 cgattgccgg ctgcagtcac cgccccaga tcaggctggt acaggatgcc ttaaggtgat 120
 gagaggtgag ggtgcatgaa gaataatgag cacagggaag agagaagcag gacaaagtag 180
 cagataaaat 190

<210> 1214
 <211> 369
 <212> DNA
 <213> Homo sapiens
 <400> 1214
 ggtccctcag caaccccagg cgtgggtttg aggagacagg tgattttacat cccctttgct 60
 gtccctcccc ggtaccaagg cagggagcct ccggagaccg gccctgctgg ccacgcaggg 120
 gcagactcca gcctgtttcc ccagccctgc aggtcttcc tctgtgggaa gcttcctagc 180
 aagatggctt ggagtcctgg tccccctcct ccctggccct ctggttcgtt tctgtttctg 240
 tttacacgtt ggagtggggg cctccgtggg cggcggcgcc ctgccccggg tgtcgtccgg 300
 cctcttgtgc tcgagccctt ttccgagttg gactcgacca tccctcacc caccaaggag 360
 cacactgtg 369

<210> 1215
 <211> 6823
 <212> DNA
 <213> Homo sapiens
 <400> 1215
 ggcggacaaa acgccaggcg gatctcagaa ggccagttca aagacgagat catcagatgt 60
 tcattcatct ggatcttcag atgcacatat ggatgcatct ggaccctcag atagtgatat 120

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|------|
| gccaagtcgg | acacgaccta | agagcccaag | aaaacataat | tataggaatg | aaagtgcccg | 180 |
| tgaaagcctt | tgtgattctc | ctcatcagaa | tctctcaaga | cctcttctgg | aaaacaaact | 240 |
| taaagcattc | agtattggaa | aaatgagtac | agctaagcga | actttaagta | aaaaggaaca | 300 |
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| gtgggtgggt | cattgcggtc | ttagattatg | tttctcttgc | taccaaacag | tcatgtatta | 6240 |
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<210> 1217
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 <212> DNA
 <213> Homo sapiens

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<210> 1218
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<212> DNA
<213> Homo sapiens

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<223> n=a,t,g or c

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ctccttttcc attattccaa aacgtttaac gttcaaagca ggggtctcatt aaaaaagaaa 180
ctactggttg atataatnga gatattacaa tttcagaata aacatttgat taaaaataag 240
gaaatcctca gttcactactg tattttaaaag aganttggtg acttgantgt gtgtaatttt 300
ttggaacctg tctaaaaacc anataccctt gcaancngat acagcccncn cnnttctntt 360
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```

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<210> 1219
<211> 456
<212> DNA
<213> Homo sapiens

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095456.094560

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| gtgtttttat | ggatctaagt | taaatccttt | ggcaatatat | aaaaatgtaa | atagtaaact | 180 |
| ttatttatta | agaatgtcat | cttttttaat | ttatatttac | acaattgttc | atctaattta | 240 |
| ttttttctat | acagttttta | atactcagac | atattttgct | gttcatgata | tttttatcct | 300 |
| gttctcatgg | atttggtttc | ccatactggt | ttctctgac | tcaattacag | gttggtatctc | 360 |
| acaaataata | atgtcagaga | cagaaatatt | ttgccactgt | tgattactat | actttaaagt | 420 |
| tctatattat | gaaaatatat | aatagcttgt | acgctt | | | 456 |

<210> 1220
 <211> 400
 <212> DNA
 <213> Homo sapiens

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| tcccctgtat | tcaagaccaa | agcacataaa | tgctaatagt | gggctcagag | gggaaatata | 120 |
| gttctcctgc | atatttgaga | aaatgtgaag | tcctttcaag | aaaatctaata | aaacataata | 180 |
| atcatagcct | gctgacacta | aggaaaaagg | acctcattca | ctctttcttt | tatgcagtga | 240 |
| tttactggtc | cctactgatt | tccaaattgg | vtcacgrtag | taaattatcc | atgctgggtac | 300 |
| ctgtgaaagt | aagccctggg | mtccatattt | gtbttgtgtt | ctgcttaaata | cagcaagaat | 360 |
| gataaatttg | atggtgtgaa | attggaagta | tcaagggtt | | | 400 |

<210> 1221
 <211> 460
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| cctctgggag | gaataggaag | aaaacaggaa | tgtaataaat | gtcgaacaga | aaacttcctc | 120 |
| ccttattaat | atataatcct | catgtattta | tgctaatagt | aagctgactt | ttaaaaagct | 180 |
| ttcttttggt | gcatgccctg | tgaggcatc | tgtattgtac | atgcatgcct | ttcgtcctgt | 240 |
| tttctgtat | aaagttagtg | aacaaagaaa | tatttttgcc | tagttcatgt | tgccaagcaa | 300 |
| tgcatatttt | ttaaatttgt | catatatgga | aagagcatgt | ttgttacatg | taaaagcttt | 360 |
| actgatatac | agatatacta | atgtttgaag | atgctgttct | ttgcaagtgg | tacagttttc | 420 |
| aaatgttggt | accagtgaac | acccttggtg | tttaacttkg | | | 460 |

<210> 1222
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
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| ctctaaacta | aatatcttga | atttaaaatt | tacttcacaa | atgaaagggg | cttagctttt | 120 |
| ccagcacagt | gtttggcaaa | gtcaggcttt | tcatggaggt | ctggttgagg | agtccaaatt | 180 |
| tggtctctgtg | gctgactgca | gaatgacttg | tcatcccagg | tccttaaaca | tgccattttg | 240 |
| cctctaggtc | attgattttc | caatcataaa | ataaggagac | taacatttcc | ttgtgtgtgt | 300 |
| gtgagatcgt | aggcacctgt | aatgacgtct | atgccttcca | taaccgacac | accatccacc | 360 |
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| anttggaggn | ggg | | | | | 433 |

<210> 1223
 <211> 2620
 <212> DNA
 <213> Homo sapiens

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| cctgtggggc | cccccaatgc | catccttgaa | gtccatgtcc | tcttcttgga | gttcccaacg | 180 |
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| gaggtgcttc | acttggccta | caattccagc | ctggtcacct | tccaagagcc | cccgggggtc | 360 |
| atcccactgc | agctgccatc | cttccccaa | accagatcc | ttgagtgggc | agctgagagg | 420 |
| aacaccacag | cctctgctgc | tgagctgaat | gacccccaga | gcatcctcct | ccgactgggc | 480 |
| ggccccatca | ggctactgtc | cttctgcatg | ctggaagcca | gccaggacat | gggccgcacg | 540 |
| caagcccagg | ggccgcgtac | tccagccttg | gtccggggct | gccacttgga | aggcgtggcc | 600 |
| ctcgagtggc | agggcgacat | cctgaggggtc | ctgccggggc | actcggccgg | gccccggacg | 660 |
| ggccacaagg | aggtggaact | gagctgcgca | cccggggatc | tcgatgccgt | cctcatcctg | 720 |
| gtgacggtga | cctacgtgtc | ctggctcatc | gacgccaacc | acaacatgca | gatctggacc | 780 |
| caggggtccc | actccttcaa | gatctttcca | gagaaaaaca | ttcgtggctt | caagctccca | 840 |
| actggagaat | aaggcctcct | gggggaggcc | cggatgctca | atgccagcat | tgtggcatcc | 900 |
| gacacacctc | taccgctggc | cagcattgtc | tcacttcatg | cctccagctg | cgggtggtagg | 960 |
| ttcgtggagc | caccgcaccc | gatccagacc | actcctccca | aggacacttg | tagcccggag | 1020 |
| ctgcagacct | ccttgatcca | gacaaagtgt | gccgacgacg | ccatgaccct | ggtactaaag | 1080 |
| ctgctcatgt | ttgcgcattt | gaagtgcacc | atcacggggc | tgaccttctg | ggaccccagc | 1140 |
| aaagagcttg | aggacagggg | tgacaagttt | gtcttgcgca | gtgcttactc | cagctgtggc | 1200 |
| tgtgaggcag | cagcaagtat | gatcagcaat | gaggcgggtg | tcaatatact | gtcgagctca | 1260 |
| atgcaggtgt | ggaaaaaggt | gactgcctc | aacatggaca | gcctctcttt | ccagctgggc | 1320 |
| tcaccacagc | gcccacactt | cctccaggcc | tccaacacca | tcgagccggg | gcagcagagc | 1380 |
| ctctacctca | tcagagtgtc | cccatccgtc | tccgagttcc | tgctccagtt | agacagctgc | 1440 |
| tttgtgcagg | tggggcctga | gggaggcacc | gtggaactca | tccagggccg | ggcggccaag | 1500 |
| cacctggact | tgagcctgct | gtccccaa | cccgaggggtg | accgcgctt | cagcttcctc | 1560 |
| ggcaactgtg | acacagtacc | catacccaaa | accggcacc | tcagctgcac | ggtagccctg | 1620 |
| ctccacttct | ccgggtctca | agaccaggaa | gtccatagga | ctgtcttcat | gcgcttgaac | 1680 |
| cgtcccaaga | ctgacctgtc | tggttgacaa | agcaaaggcc | tcgtcctgcc | cgccgtgctg | 1740 |
| atcatcagcc | ttggtgcctt | cctcatcggt | gccctgctca | ctgctgcact | ctggtacatc | 1800 |
| ggcatcacct | cgcggtcccc | cagcaagcgg | gagcccggtg | tggcgggtgg | tgccccggcc | 1860 |
| tactcgcaca | gcagcagcac | caaccacagc | atcgggagca | cccagagcac | cccctgctcc | 1920 |
| tcctcggaga | tggcatagcc | ccggcccccc | gcgctcgccc | agcaggagag | actgagcagc | 1980 |
| accagcagca | gagcactggt | gtgaactcac | cctgggagcc | agtcctccac | tcgacccaga | 2040 |
| cgccagctgg | ctctccgcgc | ctacccttcc | cgctccctc | tcagaggcct | gctgccagtg | 2100 |
| atggagcctg | cttggaaacac | cttgggggtcc | ctccacccca | cagaaccttc | aaccacgtgg | 2160 |
| cagccactgg | tggctgcccc | ggagacagac | cacttgccac | gctgttgtaa | aaacccaagt | 2220 |
| gtctgggata | tgaacctgga | tccagcactg | gtgaactgag | ctgggcagga | agggagaact | 2280 |
| ccctgtcatt | tcaggccagc | ccagccaggc | caacagcacc | tccccgctgg | gaagagaaga | 2340 |
| tgaacacagat | cagagccacc | tggatctatc | cctgcggcct | ccacacctga | acttgccata | 2400 |
| gggcccagcc | ggggagacag | gagcctagcg | gagcccagcc | tgggagccca | gaggggtggca | 2460 |
| ctaactggca | | | | | | |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| agaacagtgg | gcgttgggag | cctagctcct | gccacatgga | gccccctctg | ccggtcgggc | 2520 |
| agccagcaga | gggggagtag | ccaagctgct | tgtcctgggc | ctgccccctgt | gtattcacca | 2580 |
| ccaataaatc | agaccatgaa | accagtga | aaaaaaaaa | | | 2620 |

<210> 1224
 <211> 3150
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | tacgccgtgg | acttccacat | acccgacgcc | cgcacagcga | gtgtcttgg | gggggcggcc | 120 |
| | aaagccaaca | ccagccagcc | cgatatcgtg | gaagggggag | ccgtctatta | ctgtccttgg | 180 |
| | cccgcggagg | ggtctgcgca | gtgcaggcag | ataccgtttg | acaccaccaa | caacagaaag | 240 |
| | atcagagtta | atggaaccaa | agaacctatc | gagttcaa | ccaatcagtg | gtttggagca | 300 |
| | acagtgaag | ctcacaag | aaaagtgtg | gcctgtgctc | ctttatatca | ctggagaact | 360 |
| | cttaaaccga | caccagaaaa | aggaccagtt | ggcacctgct | atgtagcaat | tcagaacttc | 420 |
| | agcgcttatg | ccgagttctc | tccttgcgga | aacagcaatg | ctgatccgga | aggccagggt | 480 |
| | tactgccaa | caggatttag | tctggatttt | tataagaatg | gagaccttat | tgtgggagga | 540 |
| | cctgggagtt | tctactggca | aggacaagt | atcactgcc | gtgttgca | tatcattgca | 600 |
| | aattactcat | tcaaggatat | cctcaggaaa | ctggcaggag | aaaagcagac | ggaagtggct | 660 |
| | ccagcttcct | atgatgacag | ttaccttgga | tactcagttg | ctgctgggga | gtttactggg | 720 |
| | gattctcagc | aagaattgg | tgtctggaat | ccaagaggag | cacagaattt | tggatatgtt | 780 |
| | tccatcatta | actcctacga | tatgacgttt | attcagaatt | tcacgggaga | acagatggca | 840 |
| | tcttattttg | gatataccgt | tgtcgtatca | gatgttaaca | gtgatggact | ggatgatgtc | 900 |
| | ctggttgggg | cacctctctt | tatggaacgt | gaatttgaga | gcaacccag | agaagtaggg | 960 |
| | caaatctacc | tgtatttgca | agtgaactct | ctcctcttca | gagaccccca | gatcctcact | 1020 |
| | ggcaccgaga | cgtttgggag | attcggtagt | gctatggcac | acttaggaga | cctgaaccaa | 1080 |
| | gatggctaca | atgacattgc | catcggagtg | ccttttgca | gcaaggatca | aagaggcaaa | 1140 |
| | gtgctcattt | ataatgggaa | caaagatggc | ttaaacacca | agccttccca | agttctgcaa | 1200 |
| | ggagtgtggg | cctcacatgc | tgtcccttcc | ggatttggct | ttactttaag | aggagattca | 1260 |
| | gacatagaca | agaatgatta | cccagatttg | attgtgggtg | catttggaac | aggaaaagtc | 1320 |
| | gctgtttaca | gagcaagacc | ggttgtgact | gtagatgccc | agcttctgct | gcacccaatg | 1380 |
| | attatcaatc | ttgaaaataa | aacttgccag | gttccagact | ctatgacatc | tgtgcctgc | 1440 |
| | ttttctttta | gagtatgtgc | atctgtcaca | ggccagagca | ttgcaaacac | aatagtcttg | 1500 |
| | atggcagagg | tgcaattaga | ttccctgaaa | cagaaaggag | ctattaaacg | gacgctcttc | 1560 |
| | cttgataacc | atcaggetca | tcgcgtcttc | cctcttgtga | taaaaaggca | gaaatcccac | 1620 |
| | cagtgccagg | atttcatcgt | ttaccttcga | gatgaaactg | aattccgaga | taaattatct | 1680 |
| | ccaatcaaca | ttagtttgaa | ttacagtttg | gacgaatcca | cctttaaaga | aggcctggaa | 1740 |
| | gtgaaaccaa | tattgaacta | ctacagagaa | aacattgtta | gtgaacaggc | tcacattctg | 1800 |
| | gtggactgtg | gagaagacaa | tctgtgtgtt | cctgacttga | agctgtcggc | tagaccagat | 1860 |
| | aagcatcagg | taatcattgg | agatgaaaat | caccttatgc | tcataataaa | tgcaagaaat | 1920 |
| | gaaggggaag | gagcatatga | agctgaactc | tttgtaatga | taccagaaga | ggcagattat | 1980 |
| | gttggaatcg | aacgcaacaa | caagggattt | cgaccactga | gctgtgagta | caagatggaa | 2040 |
| | aatgtaacca | ggatgggtgt | gtgtgacctt | gggaacccta | tgggtgtctg | aacaaattat | 2100 |
| | tccttggggc | tcgatttgc | agttccacgt | cttgagaaaa | caaacatgag | cattaacttc | 2160 |
| | gatctccaaa | tcagaagttc | caacaaggac | aatccagaca | gcaattttgt | gagcctgcaa | 2220 |
| | atcaacatca | ctgctgtagc | gcaggtggaa | ataagaggag | tgtcacaccc | tcgcagatt | 2280 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| gttctgcccc | ttcataactg | ggaaccagaa | gaggagcccc | acaaagagga | ggaggttga | 2340 |
| ccattggtgg | aacatattta | tgagctgcac | aatattggac | caagtaccat | cagtgcaccc | 2400 |
| atcctggagg | tgggctggcc | tttctctgcc | cgggatgaat | ttcttctcta | tattttccat | 2460 |
| attcaaactc | tgggacctct | gcagtgccaa | ccaaatccta | atatcaatcc | acaggatata | 2520 |
| aagcctgctg | cctccccaga | ggacaccctt | gagctcagcg | cctttttgcg | aaactctact | 2580 |
| attcctcatc | ttgtcaggaa | gagggatgta | catgtggtcg | aattccacag | acagagccct | 2640 |
| gcaaaaatac | tgaattgtac | aaatatcgag | tgtttacaaa | tctcctgtgc | agtgggacga | 2700 |
| ctcgaaggag | gagaaagcgc | agtcctgaaa | gtcaggtcac | gattatgggc | ccacaccttc | 2760 |
| ctccagagaa | aaaatgatcc | ctatgctctt | gcacccctgg | tgtcctttga | agttaagaag | 2820 |
| atgccttata | cagatcagcc | agcaaaactc | ccagaaggaa | gcatagcaat | taagacatca | 2880 |
| gttatttggg | caactccgaa | tgtttccttc | tcaatcccat | tatgggtaat | aatactagca | 2940 |
| atacttcttg | gattgttggt | tctcgccatt | ttaaccttag | ctttatggaa | gtgtggattc | 3000 |
| tttgacagag | ccagacctcc | tcaggaggac | atgaccgaca | gggaacagct | gacaaatgac | 3060 |
| aagacccttg | aggcatgaca | agaaaaaaa | aagaagacca | aagacctgaa | acactggtcc | 3120 |
| tgttcaaaga | aaaagaaaga | acatgaggcc | | | | 3150 |

<210> 1225
 <211> 562
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 1225 | tggtcatctc | agtttctttt | ctcaccttga | ctgcaagatg | aaactccttg | tgctagctgt | 60 |
| | gctgctcaca | gtggccgccc | ccgacagcgg | catcagccct | cgggccgtgt | ggcagttccc | 120 |
| | caaaatgatc | aagtgcgtga | tcccggggag | tgacccttcc | ttggaataca | acaactacgg | 180 |
| | ctgctactgt | ggcttggggg | gctcaggcac | ccccgtggat | gaactggaca | agtgcctgcca | 240 |
| | gacacatgac | aactgctatg | accaggccaa | gaagctggac | agctgtaa | ttctgctgga | 300 |
| | caaccctgtac | accacacact | attcatactc | gtgctctggc | tccgcaatca | cctgtagcag | 360 |
| | caaaaacaaa | gagtgtgagg | ccttcatttg | caactgcgac | cgcaacgctg | ccatctgctt | 420 |
| | ttcaaaagct | ccatataaca | aggcacacaa | gaacctggac | accaagaagt | attgtcagag | 480 |
| | ttgaatatca | cctctcaaaa | gcatacctc | tatctgcctc | atctcacact | gtactctcca | 540 |
| | ataaagcacc | ttgttgaaag | aa | | | | 562 |

<210> 1226
 <211> 2907
 <212> DNA
 <213> Homo sapiens

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|------------|-------------|------------|------------|-------------|-------------|-------------|-----|
| <400> 1226 | ggaaccatgg | agctcagcgt | cctcctcttc | cttgcaactcc | tcacaggcct | cttgcctactc | 60 |
| | ctgggttcagc | gtcaccctaa | ctcccatggc | accctcccac | cagggccccg | ccctctgccc | 120 |
| | cttttgggga | accttctgca | gatggacaga | agaggcctac | tcaaatacctt | tctgagggttc | 180 |
| | cgagagaaat | atggggacgt | cttcacggta | cacctgggac | cgaggcccgt | ggctcatgctg | 240 |
| | tgtggagtag | aggccatacg | ggaggccctg | gtggacaacg | ctgaggcctt | ctctggccgg | 300 |
| | ggaaaaatcg | tcatcatgga | cccagtctac | cagggatatg | gcatgctctt | tgccaatgga | 360 |
| | aaccgctgga | aggtgcttcg | gcgattctct | gtgaccacca | tgagggactt | cgggatggga | 420 |
| | aagcggagtg | tggaggagcg | gattcaggac | gaggctcagt | gtctgataga | ggaacttcgg | 480 |
| | aaatccaagg | gagccctcgt | ggacccacc | ttcctcttcc | attccattac | cgccaacatc | 540 |
| | atctgctcca | tcatcttttg | aaaacgcttc | cactaccaag | atcaagagtt | cctgaagacg | 600 |
| | ctgaacttgt | tctgccagag | tttcttactc | atcagctcta | tatccagcca | gctgtttgag | 660 |
| | ctcttctctg | gcttcttgaa | atactttcct | ggggcacaca | ggcaagttaa | caaaaaccta | 720 |

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|------|
| caggaaatca | atgcttacat | tggccacagt | gtggagaagc | accgtgaaac | cctggacccc | 780 |
| agcgccccc | gggacctcat | cgacacctac | ctgctccaca | tggaaaaaga | gaaatccaac | 840 |
| ccacacagtg | aattcagcca | ccagaacctc | atcatcaaca | cgctctcgct | cttctttgct | 900 |
| ggcactgaga | ccaccagcac | cactctccgc | tacggcttcc | tgctcatgct | caaataccct | 960 |
| catgtcgcag | agagagtcta | caaggagatt | gaacaggtgg | ttggcccaca | tcgccctcca | 1020 |
| gcgcttgatg | accgagccaa | aatgccatac | acagaggcag | tcacccgtga | gattcagaga | 1080 |
| tttgctgacc | ttctcccat | gggtgtgccc | cacattgtca | cccaacacac | cagcttctga | 1140 |
| gggtacacca | tccccaagga | cacggaagta | tttctcatcc | tgagcactgc | tctccgtgac | 1200 |
| ccacactact | ttgaaaaacc | agacgccttc | aatcctgacc | actttctgga | tgccaatggg | 1260 |
| gcactgaaaa | agaatgaagc | ttttatcccc | ttctccttag | ggaagcggat | ttgtcttggt | 1320 |
| gaaggcattg | cccgtgcgga | attgttcttc | ttcttcacca | ccatcctcca | gaacttctcc | 1380 |
| gtggccagcc | ccgtggctcc | tgaagacatc | gatctgacac | cccaggagtg | tggtgtgggc | 1440 |
| aaaatacccc | caacatacca | gatctgcttc | ctgccccgct | gaaggggctg | aggggaagggg | 1500 |
| gtcaaaggat | tccaggggtca | ttcagtgtcc | ccacctctgt | agataatggc | tctgactccc | 1560 |
| tgcaacttcc | tgctcttgag | agacctgctg | caagccagct | tccttccctt | ccatggcacc | 1620 |
| agttgtctga | ggtcgcagtg | caaatgagtg | gaggagttag | attattgaaa | attataatat | 1680 |
| acaaaattat | atatatatat | tttgagacag | agtctcactc | agttgcccag | gctggagtgc | 1740 |
| agtggcgtga | tctcggctca | ctgcaacctc | cacccccggg | gttcaagaaa | ttctcctgcc | 1800 |
| tcagcctccc | tagtagctgg | gattacaggt | gtgtgctacc | atgcctggct | aatttttgta | 1860 |
| tttttagtag | agatgggggt | tcaccgtggt | ggccaggctg | atctcaaact | cctgaactca | 1920 |
| agtgattcac | ccaccttagc | ctcccaaagt | gctgggatta | cagggtgtag | tcaccatgcc | 1980 |
| cggccatgta | tatatataat | tttaaaaatt | aagatgaaat | tcacataaaa | taaaattagc | 2040 |
| catttttaag | tgtacaattt | agtgggtgtg | ggttcattca | caaagctgta | caaccaccac | 2100 |
| catctagttc | caaacatttt | ctttttttct | gagacggagt | ctcactctgt | cacccaggtt | 2160 |
| cgagttcagt | ggtcttgaac | tcctgatgtc | aggtgattct | cctagtcca | aatgttttca | 2220 |
| ttatctctcc | cccaacaaaa | cccataccta | tcaagctgtc | actccccata | ccccattctc | 2280 |
| tttttcatct | cagccccctgt | caatctgggt | tttgtcctta | tggacttacc | aattctgaat | 2340 |
| atttcctata | aacagaatca | cacaatat | gatttttttt | ttaaaactaa | gccttgcctc | 2400 |
| gtctcccagg | ctggagtgtc | gtggcgtgat | tttggttcac | tgcaacctcc | gccttccaag | 2460 |
| ttcaagagat | tctcctgcct | cagcttccaa | gtagctggga | ttacaggcat | gtggtaccac | 2520 |
| gcctggctaa | ttttcttgta | tttttagtag | ggacatgttg | gccaggctgg | ttgtgagctc | 2580 |
| ctggcctcag | gtgatccaca | cgcctcagtg | tcccagagt | ctgatattac | aggcgtaata | 2640 |
| tgtgatcttt | tgtgtctggt | tcctttcacg | ttgaacgcta | tttttgaggt | tcgtgcctgt | 2700 |
| tgtagaccac | agtcacacac | tgctgtagtc | ttcccccatc | ctcattccca | gctgcctcct | 2760 |
| cctactgttt | cctctatca | aaaagcctcc | ttggcgcagg | ttccctgagc | tgtgggattc | 2820 |
| tgcaactggt | ctttggattc | cctgatatgt | tccttcaaat | ccactgagaa | ttaaataaac | 2880 |
| atcgctaaag | cctgacctcc | ccacgtc | | | | 2907 |

<210> 1227
 <211> 2867
 <212> DNA
 <213> Homo sapiens

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| <400> 1227 | ttttcggtg | cttggttaacg | ggctgccaga | agagagaggc | agagagcagg | gcagcggctt | 60 |
| | cttgacgtca | gggccaagcg | aggggatg | cgccagcaac | ccccagctct | ccccagagag | 120 |
| | gggcccggcg | aggctggagc | ggagcctgac | gccaggcgcc | cgcggagcgt | gagtaggggg | 180 |

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|------------|-------------|------------|-------------|------------|-------------|------|
| cgcgggagcc | ggtcagctgg | ggcgagcat | gccctctgct | cccgcgccat | ggagatcgcc | 240 |
| ctggtgcccc | tggagaacgg | cggtgccatg | accgtcagag | gaggcgatga | ggcccgggca | 300 |
| ggctgcggcc | agggcacagg | gggagagctc | cagtgtcccc | cgacggctgg | gctcagcgat | 360 |
| gggcccgaag | agccggcgcc | aaagggggcg | ggcgcgagca | gagacgcgga | ctcgggagtg | 420 |
| cggcccttgc | ctccgctgcc | ggacccggga | gtgcggccct | tgcctccgct | gccagaggag | 480 |
| ctgccacggc | ctcgacggcc | gcctcccag | gacgaggagg | aagaaggcga | tcccggcctg | 540 |
| ggcacggtgg | aggaccaggc | tctgggcacg | gcgtccctgc | accaccagcg | cgtccacatc | 600 |
| aacatctccg | gcctgcgctt | tgagacgcag | ctgggcaccc | aggcgagtt | ccccaacaca | 660 |
| ctcctggggg | accccgccaa | gcgcctgccg | tacttcgacc | ccctgaggaa | cgagtacttc | 720 |
| ttcgaccgca | accggcccag | cttcgacggt | atcctctact | actaccagtc | cggggggccgc | 780 |
| ctgcggaggc | cgggtcaacgt | ctccctggac | gtgttcgcgg | acgagatacg | cttctaccag | 840 |
| ctgggggacg | aggccatgga | gcgcttcggc | gaggatgagg | gcttcattaa | agaagaggag | 900 |
| aagccccctg | tccgcaacga | gttccagcgc | cagggtgtggc | ttatcttcga | gtatccggag | 960 |
| agctctgggt | ccgcgcgggc | catcgccatc | gtctcggtct | tggttatcct | catctccatc | 1020 |
| atcaccttct | gcttgagagc | cctgcctgag | ttcagggatg | aacgtgagct | gctccgccac | 1080 |
| cctccggcgc | cccaccagcc | tcccgcgccc | gccctggggg | ccaacggcag | cgggggtcatg | 1140 |
| gccccgccct | ctggccctac | ggtggcaccc | ctcctgccca | ggaccctggc | cgacccttcc | 1200 |
| ttcatcgctg | agaccacgtg | cgtcatctgg | ttcaccttcg | agctgctcgt | gcgcttcttc | 1260 |
| gcctgcccc | gcaaggcagg | gttctcccgg | aacatcatga | acatcatcga | tgtggtggcc | 1320 |
| atcttcccc | acttcatcac | cctgggcacc | gaactggcag | agcagcagcc | agggggcgga | 1380 |
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| gtccgggtgt | tccgcatctt | caagctctcc | cgccactcca | aggggctgca | gatcctgggc | 1500 |
| aagaccttgc | aggcctccat | gaggagctg | gggctgctca | tcttcttcc | cttcatcggg | 1560 |
| gtcatcctct | tctccagtgc | cgtctacttc | gcagaggctg | acaaccaggg | aaccatttcc | 1620 |
| tctagcatcc | ctgacgcctt | ctggtgggca | gtggtcacca | tgaccactgt | gggctacggg | 1680 |
| gacatgaggc | ccatcactgt | tgggggcaag | atcgtgggct | cgctgtgtgc | catcgccggg | 1740 |
| gtcctcacca | ttgccttgcc | tgtgcccgtc | atcgtctcca | acttcaacta | cttctaccac | 1800 |
| cgggaaacgg | atcacgagga | gccggcagtc | cttaaggaag | agcagggcac | tcagagccag | 1860 |
| gggcccgggg | tggacagagg | agtccagcgg | aaggtcagcg | ggagcagggg | atccttctgc | 1920 |
| aaggctgggg | ggaccctgga | gaatgcagac | agtgcccgaa | ggggcagctg | ccccctagag | 1980 |
| aagtgtaacg | tcaaggccaa | gagcaacgtg | gacttgcgga | ggcccttcta | tgcctctgc | 2040 |
| ctggacacca | gccgggaaac | agatttgtga | aaggagattc | aggcagactg | gcagactggt | 2100 |
| ggcagtggag | tagggaatgg | gaggcttgct | gaacatggat | atctacatta | taccgcagag | 2160 |
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| ggatcccccc | atcttctcta | ttctttccat | gaacacccaa | gggtcgccta | atctttaaaa | 2280 |
| agtaccacat | tccatgacgc | aggagctgtg | gaaatggtga | gcgctgtgag | atggatgtat | 2340 |
| ttgtagccag | tctcctatac | ccagcagagg | gataacccaa | acaaaaatga | ctctaaatat | 2400 |
| cccagatccc | aagagattat | gtaactcctc | catccatgtg | ttccaaattt | gctttacata | 2460 |
| tgattgtatt | tgtgtatagg | ggaaaatatt | atctttatgc | ctggtaagtg | gctttttgta | 2520 |
| ctgtagtcag | atagagatat | ttggtatatt | tcaagataca | tgttgatatt | atggaagaat | 2580 |
| gtgttggtcc | tgatggtttt | tctgtgttac | tatattagag | tcagagatct | tggatggggc | 2640 |
| tgttctgttt | cctgtgtctc | caagcctctg | tcttttctgg | gatgtgggat | tgggtgctttg | 2700 |
| tgtctagggc | agagtatggt | cttgaagaaa | ggcaaactctg | actttttctg | tgcgccttaa | 2760 |
| acaattcttg | taactttctt | caaaaagcat | tttaatgata | ttggaggaat | acttctgata | 2820 |

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2867

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<212> DNA
<213> Homo sapiens

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<211> 6314
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| | | |
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| | accctctgcc tctggctggc ggcctccagc ggctgcctgg cggccggccc cggcgcggt | 240 |
| | gctgcgcggc ggctggacga gtcgctgtct gccgggagcg tccagcgcg tccgtgcgcc | 300 |
| | tccaggtgcc tgagcctgca gatcactcgc atctccgcct tcttccagca cttccagaac | 360 |
| | aatggttccc tggtttggtg ccagaatcac aagcaatggt ctaagtgcct ggagccctgc | 420 |
| | aaggaatcag gggacctgag gaaacaccag tgccaaagct tttgtgagcc tctcttcccc | 480 |
| | aagaagagct acgaatgctt gaccagctgt gagttcctca aatacatcct gttggtgaag | 540 |
| | cagggggact gtcgggctcc tgagaaagcc agtggatttg cggccgcctg tgttgaaagc | 600 |
| | tgcgaaagtg acaatgagtg ctctgggggtg aagaaatggt gttcgaatgg gtgtggacac | 660 |
| | acctgtcaag tacccaagac tctgtacaaa ggtgtcccc tgaagcccag aaaagagtta | 720 |
| | cgatttacag aactgcagtc tggacagctg gaggttaagt ggtcctcgaa attcaatatt | 780 |
| | tctattgagc ctgtgatcta tgtggtacaa agaagatgga attatggaat ccctcctagc | 840 |
| | gaagatgacg cactcactg gcagacagtg gccagacca cagacgagcg agttcaactg | 900 |
| | actgacataa gaccagccg atggtaccag tttcgagtgg ctgctgtgaa tgtgcatgga | 960 |
| | actcgaggct tctactgccc cagcaaacac ttccgttctt ccaaagatcc atctgcccc | 1020 |
| | ccagcaccgg ctaacctccg gctggccaac tccaccgtca acagtgatgg gagtgtgacc | 1080 |
| | gtcactatag tttgggatct ccccgaggag ccggacatcc ctgtgcatca ttacaaggtc | 1140 |
| | ttttggagct ggatggtcag cagtaagtct cttgtcccaa caaagaagaa gcggagaaag | 1200 |
| | actacggatg ggtttcaaaa ttctgtgatc ctggagaaac tccagccaga ctgtgactat | 1260 |
| | gttgtggaat tgcaagccat aacgtactgg ggacagacac ggctgaagag tgcaaagggtg | 1320 |
| | tcccttcact tcacatcgac acatgcaacc aacaacaaag aacagcttgt gaaaactaga | 1380 |
| | aaagggtggaa ttcaaacaca actccctttt caaagacgac gaccactcg cccgctggaa | 1440 |
| | gtcggagctc cttctatca ggatggccaa ctgcaagtta aagtctactg gaagaagaca | 1500 |
| | gaagatccca ctgtcaaccg atatcatgtg cgggtggtttc ctgaagcgtg tgcccacaac | 1560 |
| | agaacaaccg gatcagaggc atcatctggc atgaccacg aaaattacat aattcttcaa | 1620 |
| | gatctgtcat tttcctgcaa gtataagggtg actgtccaac caatacggcc aaaaagtcac | 1680 |
| | tccaaggcag aagctgtttt cttcactact ccaccatgct ctgctcttaa ggggaagagc | 1740 |
| | cacaagccta ttggctgcct gggcgaagca ggtcatgttc tttctaagggt gctagctaag | 1800 |
| | cctgagaacc tttctgcttc attcatcgtc caggatgtga acatcaccgg tcaactttct | 1860 |
| | tggaagatgg ccaaggccaa tctctatcag cccatgactg ggtttcaagt gacttgggct | 1920 |
| | gaggtcacta cggaaagcag acagaacagc ctaccaaca gcattatttc acagtcccag | 1980 |
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| | ccctacaagc atggagaaaa tgaagaatag gcctgtttaa tgctaaattt tgttttcatg | 2460 |
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| accaaactcc | gccccaaaaa | ggagagtaac | aaatacacaa | ttcacacata | acactaagcg | 2580 |
| taaatcta | caataaaata | tatttttgac | taaattattg | attcgatatg | aaaaatcaac | 2640 |
| taagattaca | cagctttggt | tttttgaatc | tttcctaaga | tcatttttat | cctaggtgat | 2700 |
| ttttaaatga | aaatgtgtaa | tctaaaaat | accagcgaat | ttaaatctaa | aaatgctcct | 2760 |
| actttaagta | ccttggtgctg | ctcttttatgc | aaaggtaaat | caaagttccc | tctataaatt | 2820 |
| atgatttaca | aaagacaccc | aagccagagg | aactcaatga | aataagctgc | taatcagatt | 2880 |
| ttaccttgga | gaaatgaaaa | ttatttcttg | gggatgcctt | ttaatatttg | atcctattat | 2940 |
| gtgagagatt | ttcctgatat | gttatcttat | ttatatatttc | ccttatttttc | ctcaatgcag | 3000 |
| ataatagctt | ttggtgcact | tttgtttcac | catctgaaaa | ttcacaaaaac | ttcttgcttc | 3060 |
| aaatgaaaaa | atcccaacta | ttgagcatgt | ttaaatcttt | gcagagattt | gccttttctt | 3120 |
| aatcaaagaa | aggtctttgt | gtgctagaat | attattggta | atgtttttaa | aattcctttg | 3180 |
| attgatagag | aaggacagtt | atttgcattt | aattcaccca | tatgctttca | aatctagtat | 3240 |
| atcttacttt | ttggaaatgt | tttatgctac | aaattagtgc | cttgtagcat | gaacttaagt | 3300 |
| caaaacgtgt | tatcaatata | gagtgttgca | gtgtatattg | taacaaccta | aaacgcagag | 3360 |
| aagtttaatt | taatactggt | tttttcttg | aaggaatact | cacatacatg | gtttgaaatg | 3420 |
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| aaggtcataa | ggataatata | ttttcccat | caatgctgat | tctgagaaaa | gagcaattta | 3660 |
| tcaaaattaa | acactgtaaa | agaaagggtg | ccatatgtct | ttacctacct | aagtaaaaca | 3720 |
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| tattgtttcc | tgaattcatg | cagatgcctg | gccattcctg | ggaagagtgg | ataactcaga | 3840 |
| agtcactgta | ctccacagag | cctcactgca | gtgtctaaag | gtagatgcaa | attaaaatgc | 3900 |
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| atacctgata | atagatatg | aaaccattt | cctgtgtgtt | aaaatattta | aaaagtggat | 4020 |
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| acattgagtt | atgaaattac | ctggttctaa | gaatttttga | gtggcaaaaa | tagaaaacaa | 4200 |
| tcttcatttg | aaaacatccc | taagcttgaa | taaatggata | ccatagatag | cttctctttt | 4260 |
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| tttttcatta | ttagctatcc | atttatcttt | tacatgaact | tgtcatgaac | aaattcaaat | 4380 |
| gtttatgcca | gcaaattttt | gtactgttgc | atagttaaaa | atgctgggag | tctctgcata | 4440 |
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| tttaacaaac | atagttttgg | tgcctaattc | tgtaatatgt | tttattgaaa | ttagattcat | 4860 |
| ttctcta | atagttttgg | atatccagta | atagtattga | ctgttttaaaa | aattgagctc | 4920 |
| atcaaaaata | ttgtcatcaa | atacaggtgg | ttaatctgac | atacattgca | gttacatgca | 4980 |
| ttatttttat | ttacaacatt | tgtctcttaa | tgatgaattt | atctgtgtta | ccctgttttt | 5040 |
| ctacctggaa | ctccatagaa | tgatgtttgc | aaaccaacat | gtgctctttt | cagtcattca | 5100 |
| ctgtttta | atgacatggt | agagaagata | aggtttatgg | caggtaattt | tttgtaatgt | 5160 |

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| gccgactgta | tacagagggt | catctcaacc | tcaacactat | tgacttttgg | ggctggatag | 5280 |
| ttctctgttg | tgggggtttg | tcttgtgcac | tgtaggtttt | tagtagcatc | cacactttct | 5340 |
| cctcaccaga | tgccagttgc | accctcccc | aagttgagac | aacaaaaaat | gtctccagat | 5400 |
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| aaataactaat | tttgccctat | gtatccgtaa | atgtcatttg | tgattttgac | ttattttatt | 5700 |
| aatgcccttt | cttatgccgt | gggttttcaa | gtttactcat | ttctatgggt | gcaaataact | 5760 |
| ctaaaactta | ttatataaac | tttcatatta | taggcagaac | acaatggcta | aatatctggt | 5820 |
| gcatgtactt | taaagtttat | tataaaatat | aaacagatat | ataaagatgt | tgactcttac | 5880 |
| ctgtgatttt | gcatgggtcag | actcgggtgc | aggtacggag | aggattctca | tgactgtctt | 5940 |
| acctctactg | aatattctag | tgagttatat | gatttacgga | gtgattaaca | gaggtctata | 6000 |
| taaagttact | tttccccctt | acttaattat | attgtagtgt | gcagataaca | aaactgctac | 6060 |
| cttctcatcc | aagtgggtctg | tagaattcat | gtcccttaca | gtggtcattt | aaagtcaata | 6120 |
| tttattttatg | tatgtaataa | aaaaagttgg | atttttgtgt | atgtctgtca | cattattttag | 6180 |
| agagaagtaa | tcttgtaaaa | atgtttttgta | aaaaacaaaa | aagtattgta | aatagtcttg | 6240 |
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| | tgaccctatc | attatttcac | caagccaata | ccagccgcca | tccttctcca | gaattcttgt | 180 |
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 <211> 385
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

| | | | | | | | |
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| | aaagaaatca | ttagcaagag | taggaattga | atcataaaca | aattggctaa | tgaagaaatc | 120 |
| | ttttctttct | tgttcaattc | atctagatta | taaccttaat | gtgacacctg | agacctttag | 180 |
| | gacagttgac | cctgaattaa | atagtcacat | gggtaacaat | tatggcactg | tgtaatttta | 240 |
| | ggtaattgtat | taacatggca | atggatggca | ctttaactga | ggatagggga | ctatgttagg | 300 |
| | gaaaattgga | actaatttta | attatttgga | ttgttttaat | ccctaaaggc | cttaggttag | 360 |
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 <211> 418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | | |
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| | | gattttctccc | atggcctagc | gatgtacgag | cgctgtcccc | gagccgtgga | gccccctttgg | 180 |
| | | tntgaagggg | ctgggcataa | tgacatagag | ctttatgcac | aatacctaga | aagactaaaa | 240 |
| | | cagttcatat | ctcacgaact | tcctaattcc | tgaagacaac | aacttgatct | tacctcattt | 300 |
| | | actgtgaaca | gaagagtcct | ctgttttgca | catgctttta | ctgggtagct | gtaaaaggctt | 360 |
| | | gataaccatg | gaagaagtgc | ccaaccttta | gggtgttcnt | aatcaaagag | ctggatgg | 418 |

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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

| | | | | | | | | |
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| | | ccacaataag | ctggaagttt | gtttagtat | gcctcaaata | taactgactg | tatactatag | 180 |
| | | tggttaacttt | tcaaacagcc | cttagcactt | ttataactaat | taaccatttt | gtgcattgag | 240 |
| | | ttttctttta | aaaatgcttg | ttgtgaaaga | cacagatacc | cagtatgctt | taacgtgaaa | 300 |
| | | aggaaaatgt | gttcncgttt | ttgtaaagg | gacntttcaa | gggatttggt | ngtaaaanac | 360 |
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 <212> DNA
 <213> Homo sapiens

| | | | | | | | | |
|-------|------|-------------|-------------|-------------|------------|-------------|------------|------|
| <400> | 1235 | cccgggcgga | gggggcggga | agagcgcgctc | ctggccaagc | cgagtagtgt | cttccactcg | 60 |
| | | gtgcgtctct | ctaggagccg | cgcggaagg | atgctggtcc | gcaggggcgc | gcgcgcaggg | 120 |
| | | cccaggatgc | cgcggggctg | gaccgcgctt | tgcttgctga | gtttgctgcc | ttctgggttc | 180 |
| | | atgagtcctg | acaacaacgg | tactgctacc | ccagagttac | ctaccaggg | aacattttca | 240 |
| | | aatgtttcta | caaatgtatc | ctaccaagaa | actacaacac | ctagtaccct | tggaagtacc | 300 |
| | | agcctgcacc | ctgtgtctca | acatggcaat | gaggccacaa | caaacatcac | agaaacgaca | 360 |
| | | gtcaaattca | catctacctc | tgtgataacc | tcagtttatg | gaaacacaaa | ctcttctgtc | 420 |
| | | cagtcacaga | cctctgtaat | cagcacagt | ttcaccaccc | cagccaacgt | ttcaactcca | 480 |
| | | gagacaacct | tgaagcctag | cctgtcacct | ggaaatgttt | cagacctttc | aaccactagc | 540 |
| | | actagccttg | caacatctcc | cactaaaccc | tatacatcat | cttctcctat | cctaagtgc | 600 |
| | | atcaaggcag | aaatcaaagt | ttcaggcatc | agagaagtga | aattgactca | gggcatctgc | 660 |
| | | ctggagcaaa | ataagacctc | cagctgtgag | gagtttaaga | aggacagggg | agagggcctg | 720 |
| | | gcccagagtgc | tgtgtgggga | ggagcaggct | gatgctgatg | ctggggccca | ggtatgctcc | 780 |
| | | ctgctccttg | cccagtctga | ggtgaggcct | cagtgtctac | tgctgggtctt | ggccaacaga | 840 |
| | | acagaaattt | ccagcaaact | ccaacttatg | aaaaagcacc | aatctgacct | gaaaaagctg | 900 |
| | | gggatcctag | atttctactga | gcaagatgtt | gcaagccacc | agagctattc | ccaaaagacc | 960 |
| | | ctgattgcac | tggtcacctc | gggagccctg | ctggctgtct | tgggcatcac | tggctatttc | 1020 |
| | | ctgatgaatc | gccgcagctg | gagccccaca | ggagaaaggc | tggagctgga | accctgacca | 1080 |

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| ctcttcagga | agaaaggagt | ctgcacatgc | agctgcaccc | tccctccgat | ccttcctccc | 1140 |
| acctccccct | cccccttctc | ccaccctgc | ccccacttcc | tgtttgggcc | ctctcccatc | 1200 |
| cagtgtctca | cagccctgct | taccagataa | tgtactttta | tttatacact | gtctagggcg | 1260 |
| aagaccctta | ttacacggaa | aacggtggag | gccagggcta | tagctcagga | cctgggacct | 1320 |
| cccctgaggc | tcagggaaaag | gccagtgtga | accgaggggc | tcaggaaaac | gggaccggcc | 1380 |
| aggccacctc | cagaaacggc | cattcagcaa | gacaacacgt | ggtggctgat | accgaattgt | 1440 |
| gactcggcta | ggtggggcaa | ggctgggcag | tgtccgagag | agcaccctc | tctgcatctg | 1500 |
| accacgtgct | acccccatgc | tggaggtgac | atctcttacg | cccaaccctt | ccccactgca | 1560 |
| cacacctcag | aggctgttct | tggggcccta | caccttgagg | aggggcaggt | aaactcctgt | 1620 |
| cctttacaca | ttcgctccct | ggagcagact | ctggtcttct | ttgggtaaac | gtgtgacggg | 1680 |
| ggaaagccaa | ggtctggaga | agctcccagg | aacaactgat | ggccttgacg | cactcacaca | 1740 |
| ggacccccct | cccctacccc | ctcctctctg | ccgcaataca | ggaacccccca | ggggaaagat | 1800 |
| gagcttttct | aggctacaat | tttctcccag | gaagctttga | tttttaccgt | ttcttccctg | 1860 |
| tattttcttt | ctctactttg | aggaaaccaa | agtaaccttt | tgcacctgct | ctcttgtaat | 1920 |
| gatatagcca | gaaaaacgtg | ttgccttgaa | ccacttccct | catctctcct | ccaagacact | 1980 |
| gtggacttgg | tcaccagctc | ctcccttggt | ctctaagttc | cactgagctc | catgtgcccc | 2040 |
| ctctaccatt | tgcagagtcc | tgcacagttt | tctggctgga | gcctagaaca | ggcctcccaa | 2100 |
| gttttaggac | aaacagctca | gttctagtct | ctctggggcc | acacagaaac | tctttttggg | 2160 |
| ctcttttttc | tccctctgga | tcaaagtagg | caggaccatg | ggaccaggtc | ttggagctga | 2220 |
| gcctctcacc | tgtactcttc | cgaaaaatcc | tcttccctctg | aggctggatc | ctagccttat | 2280 |
| cctctgatct | ccatggcttc | ctcctccctc | ctgccgactc | ctgggttgag | ctgttgccctc | 2340 |
| agtcccccaa | cagatgcttt | tctgtctctg | cctccctcac | cctgagcccc | ttccttgctc | 2400 |
| tgcacccccca | tatggtcata | gcccagatca | gctcctaacc | cttatcacca | gctgcctctt | 2460 |
| ctgtgggtga | cccaggctct | tgtttgctgt | tgatttcttt | ccagaggggt | tgaacagggg | 2520 |
| tcctggtttc | aatgacgggt | ggaaatagaa | atttccagag | aagagagtat | tgggtagata | 2580 |
| ttttttctga | atacaaagtg | atgtgtttta | atactgcaat | taaagtgata | ctgaaacaca | 2640 |
| aaaaaaaaaa | aaaaaaaa | | | | | 2657 |

<210> 1236
 <211> 358
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|-------------|-------------|------------|------------|-----|
| <400> 1236 | cttggggagt | ctaaagaatg | tatctctcat | cttgtagagg | tattaagtga | ttcgatttat | 60 |
| | ttggtagatt | aaatgggcag | gcattgtcaa | atgtggcgat | actgcatggg | agggcactgt | 120 |
| | caagtgaggt | gacattagat | ctcatctcag | ttatatattat | gggtatgttg | ttgatatgcg | 180 |
| | tgttccaaaa | attgcataca | tttatacaaa | tttaatatga | tttgtaattt | tgatagttat | 240 |
| | ggctaaatat | ttgcttaaag | ttatatattgt | attaaacatg | tcacggatgg | gctggggcac | 300 |
| | ggtggggcac | ggcacctggt | aatccccggg | ggtactcccc | agggntggag | ggccaggg | 358 |

<210> 1237
 <211> 2000
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|-------------|------------|------------|------------|----|
| <400> 1237 | attttcctgg | ggctccgggg | cgcgagagaag | ctgcatccca | gaggagcgcg | tccaggagcg | 60 |
|------------|------------|------------|-------------|------------|------------|------------|----|

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gacccgggag | tgtttcaaga | gccagtgaca | aggaccagg | gcccaggtcc | caccagccat | 120 |
| gcagacctgc | cccctggcat | tccctggcca | cgtttcccag | gcccttggga | ccctcctgtt | 180 |
| tttggtgcc | tccttgagt | ctcagaatga | aggctgggac | agccccatct | gcacagaggg | 240 |
| ggtagtctct | gtgtcttggg | gcgagaacac | cgatcatgtcc | tgcaacatct | ccaacgcctt | 300 |
| ctcccatgtc | aacatcaagc | tgcgtgcca | cgggcaggag | agcgccatct | tcaatgaggt | 360 |
| ggctccaggc | tacttctccc | gggacggctg | gcagctccag | gttcaggagg | gcgtggcaca | 420 |
| gctggtgatc | aaaggcgccc | gggactccca | tgctgggctg | tacatgtggc | acctcgtggg | 480 |
| acaccagaga | aataacagac | aagtcacgct | ggaggtttca | ggtgcagaac | cccagtcgcg | 540 |
| ccctgacact | gggttctggc | ctgtgccagc | ggtggtcact | gctgtcttca | tcctcttggg | 600 |
| cgctctggtc | atgttcgcct | ggtacagggt | ccgctgttcc | cagcaacgcc | gggagaagaa | 660 |
| gttcttcctc | ctagaacccc | agatgaaggt | cgcagccctc | agagcgggag | cccagcaggg | 720 |
| cctgagcaga | gcctccgctg | aactgtggac | cccagactcc | gagccccacc | caaggccgct | 780 |
| ggcactgggtg | ttcaaaccct | caccacttgg | agccctggag | ctgctgtccc | cccaaccctt | 840 |
| gtttccatat | gccgcagacc | catagccgcc | tgcaaggcag | agaggacaca | ggagagccag | 900 |
| ccctgagtgc | cgaccttggg | tggcggggcc | tgggtctctc | gtcccaccgc | gagggcacag | 960 |
| acaccggctt | gcttggcagg | ctgggcctct | gtgtcaccca | ctcctgggtg | cgtgcagacc | 1020 |
| cttccccctc | accccccagg | tcttccaagc | tctgttctct | cagtttccaa | aatggaacca | 1080 |
| cctcacctcc | gcagcaccgc | acttaccagg | acgcatgccc | ctccctctgc | cctcatcaaa | 1140 |
| cccacagacc | cggactccct | ttctgccacc | ccaggctggt | ccggccccag | gtgtggggctc | 1200 |
| cgctctctcc | actcccaggg | ctccgcgccc | aagtgagggg | gcccctgccg | gagcctcaga | 1260 |
| cacactggag | ttcagggctg | ggggggcctt | ggcacatacc | tgtcccttgg | ctatgagcag | 1320 |
| gctttggggg | cccttccgcg | gcagcccccg | gggccgaggt | agggctctggg | ggcttagagg | 1380 |
| ctgggatggc | tcctggcccc | accgccaggg | ggcaagcgca | ggccgggctg | ggaggcggcg | 1440 |
| gcggcggctc | gggctggggg | gtcaggtgga | cgctgcctcc | ggggctgggtc | gcgcctccct | 1500 |
| cagtccctcg | gccaccgggg | ggtcgctccc | tcgtgcccac | cgcacctgcc | gagcctcttt | 1560 |
| ggaccagat | ctgttcatgc | ttttgtcttc | gtcactgcgg | cggggccctt | tgatgtcttc | 1620 |
| atctgtatgg | ggtggaaaaa | tcaccgggaa | tcccccttca | gttctttgaa | aaagttccat | 1680 |
| gactcgaata | tctgaaatga | agaaaaacaa | ccgactcaca | aacctccaag | tagctccaaa | 1740 |
| tgcaattttt | aaaatggaaa | acaaaaatct | gaaagaaacg | tctttagtgg | ctttaagccc | 1800 |
| caaaacgtcc | ctaaggcgctc | ctcgagatga | agacgggggg | gagccccag | ccagggtggag | 1860 |
| accccgccagg | acgcggcggc | gcccgggtgac | cgaggccctcg | cacagccggc | cgccctgagg | 1920 |
| gtcggggccg | agccagggtc | caagaggggc | gcgtttgtgt | ctcgggttaa | aataagggtc | 1980 |
| cgccgcgctg | ctgggtcaga | | | | | 2000 |

<210> 1238
 <211> 1696
 <212> DNA
 <213> Homo sapiens

| | | | | | | | | |
|-------|------|------------|------------|------------|------------|------------|------------|-----|
| <400> | 1238 | ccgagtgtcc | acaccctgtg | cgtctctctg | tcctgccagc | actgagggtc | catccatccg | 60 |
| | | cagagcagg | cagtgggagg | agacgccatg | acccccatcc | tcacggctct | gatctgtctc | 120 |
| | | gggctgagtc | tgggccccag | gaccacagtg | caggcagggc | acctccccaa | gcccaccctc | 180 |
| | | tgggctgagc | caggctctgt | gatcatccag | ggaagtcctg | tgaccctcag | gtgtcagggg | 240 |
| | | agccttcagg | ctgaggagta | ccatctatat | agggaaaaca | aatcagcatc | ctgggttaga | 300 |
| | | cggatacaag | agcctgggaa | gaatggccag | ttccccatcc | catccatcac | ctgggaacac | 360 |
| | | gcagggcggg | atcactgtca | gtactacagc | cacaatcact | catcagagta | cagtgacccc | 420 |
| | | ctggagctgg | tggtgacagg | agcctacagc | aaaccacccc | tctcagctct | gcccagccct | 480 |

```

gtggtgacct taggagggaa cgtgaccctc cagtgtgtct cacaggtggc atttgacggc 540
ttcattctgt gtaaggaagg agaagatgaa caccacaaac gcctgaactc ccattcccat 600
gcccgtgggt ggtcctgggc catcttctcc gtggggcccc tgagcccgag tcgcaggtgg 660
tcgtacaggt gctatgctta tgactcgaac tctccctatg tgtggtctct acccagtgat 720
ctcctggagc tcctgggtccc aggtgtttct aagaagccat cactctcagt gcagccaggt 780
cctatggtgg cccctgggga gagcctgacc ctccagtgtg tctctgatgt cggctacgac 840
agatttgttc tgtataagga gggagaacgt gacttcctcc agcgccctgg ttggcagccc 900
caggctgggc tctcccaggc caacttcacc ctggggccctg tgagcccctc ccacgggggc 960
cagtacagat gctacagtgc acacaacctc tctcccgagt ggtcggcccc cagtgacccc 1020
ctggacatcc tgatcacagg acagttctat gacagaccct ctctctcggg gcagccgggc 1080
cccacagtag cccagggaaa gaacgtgacc ctgctgtgtc agtcacgggg gcagttccac 1140
actttccttc tgaccaagga gggggcaggc catccccac tgcatctgag atcagagcac 1200
caagctcagc agaaccaggc tgaattccgc atgggtcctg tgacctcagc ccacgtgggg 1260
acctacagat gctacagctc actcagctcc aaccctacc tgctgtctct cccagtgac 1320
cccctggagc tcgtggtctc agcatcccta ggccaacacc cccaggatta cacagtggag 1380
aatctcatcc gcatgggtgt ggctggcttg gtccctgggtg tcctcgggat tctgctatct 1440
gaggctcagc acagccagag aagcctacaa gatgcagccg ggaggtgaac agcagagagg 1500
acaatgcata cttcagcgtg gtggagcctc agggacagat ctgatgatcc caggaggctc 1560
tggaggacaa tctaggacct acattatctg gactgtatgc tggtcatttc tagagacagc 1620
aatcaatatt tgagtgtgaa gaaactgtct ggggtgattc ctagaagatc attaaactgt 1680
ggtacatttt tttgtc 1696

```

```

<210> 1239
<211> 570
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

```

```

<400> 1239
cgaagtagac aaagacatgg agagtgtgat tccaagaca gactgcaggt tacggcctga 60
catcagagcc atggaaaatg gagagataga tcaagctagt gaagaaaaaa aacgacttga 120
ggaaaaacaa agagcagccc gcaaaaacag gtccaagtca gaagaggact ggaagaccga 180
ggtggttcca tcaaggctct aatccctaca atggagcaca ggactggatt tactctggca 240
gctactggga cagaaattac ttcaatttgc ctgacattta ttaaaatgca tacaagtcag 300
ggtgtttggc taatctacaa ataagtctta aacctatgtt tttaaatttt tttcccttgg 360
tttctactta tcttttataaa aaaaaatgaa aaacactca tgagataact gcatttcacc 420
ccaacaaaag caggggtata aggcgntatt ggggtgatgaa agtccttagg gaaaatgcat 480
aatttttgcn ataaatggta cctaatttgg ggataccan tttatataga gggtaagaga 540
cactgcttgg gggatatgcc ttttatgggt 570

```

```

<210> 1240
<211> 592
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

```

```

<400> 1240
ttgtantgca ttataataac gttcatgaaa tcgttacgtt gacaggttgg gttaatatga 60

```

```

agcttggaat atttttcagt gtttttagtaa aactgcaagg gtaaaatgcc cttaatgcc 120
gggaaacaca cacaggaaat caantaccag catttacacg tcagtaaccc ttcaagttct 180
gccaccctgt gtggggtaat gccgtgcagc taaaatatga tttacgcaac accatgacta 240
aggaatttct catagaactt aantttcttn ngaaagctat tnggggtttg gggcaataag 300
tctatccggg cttactaaat agtnggccca atgtgctttg tgtgtgtttt tagaaacttc 360
ttcattggtta cccattacag aaaagtncca tgnattggn nttgaaaaac cagnggtgtc 420
ncccccttta cccagggggg ntggaanggt cccttggnac aattttttca agtgnttcct 480
tccctcaatt cactnccnnc ccggnnggna tccantngtt ccnnttctcn cnnnnnnnnn 540
nnnnnnnnnn cnnccccccc tectnccct nntccnntc cncncnttt tc 592

```

```

<210> 1241
<211> 797
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<223> n=a,t,g or c

```

```

<400> 1241
nnnnnnnnnn nttnttctta ggctctttat tagtttttca gcacagttaa ctctttctac 60
gttgactaga gttttgtttt acattttatc atctcatgac agcagccacc agaatacaca 120
aaattaggct ctttactttg tgcggagaag aaaataataa acattaaaag ttcaccttga 180
ccaaagagac aacctccaga agaacaccac acatgggaga ccccttcccc caccctccac 240
caagcacacc tgtttctgtc tcatagcaca tgtgacaatc atctggacaa cagccacaag 300
ggggcgctcg gaccaggcag ccactttcct ggggtgctctc tgggcccagc tgggtgcttg 360
tagggccacg caggcagggg ggggtcaaggg gggttcttct gcccacaagga agacagaaca 420
tggaagaacc ncccagggca ggaacccac agattgtccc ttccagncca cactcttgca 480
cctcctggcc tgtcccatte tgagcaaggc ctccccgagg agnngtgcct ggccccttnt 540
cccanagnnn cctnttggtt nngnaangnn nnnnnaccnn tttnnngnnn ntccccnnnn 600
gtttcantgg nttncgnta ntncaanann nntttnngnt nttttcaann nnnnnnnnnn 660
nntnntntca nnnnnnnnnn nnnnnntnnt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnn

```

```

<210> 1242
<211> 406
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<223> n=a,t,g or c

```

```

<400> 1242
tagagacagg gtttcaccaa tttggccagg ctggtcttga actcctggcc tcaggtgatc 60
tacctgcctt gntcccaaaa gtgctgggat tacaggcgtg caccagcgc cagtctagga 120
tgtcgttttt ctgatacaac aaaggataag gttttagaat aatagtatgt cacaatatct 180
ttaaaaaacag caggtgcagt ggctcacacc tgtaagccca gcattttggg ggttcaaggc 240
gggaagatca gttgaggcca ggagttcaag accagcctgg actgcataga aagatcctat 300
ttgtacaaaa aatgtaaaaa cttaaaattg cacaaaattt gtcacctgta ccagctttta 360
gaactgttta tcttatcctc ctcaagtata catcatgaag ttgtgt 406

```

```

<210> 1243
<211> 579

```

<212> DNA
<213> Homo sapiens

<400> 1243
ctgtcatgtt actatcaatg gtgatttcaa tgcgaatatt ttaaattgat gagaatgatt 60
tgtaaacaatg aagttactat tacgtaaatt ctgtttgtta tagagtttct tcagttgtta 120
cccaagtgtc atcctagaga agtcagaaga atcagaatcc atcgtatttt agagttatgt 180
gaatctacat cataaatggg cattaacatt ctaaattgct tggtttggag aatgtgttag 240
cagcatagct atattcaact agggagatgc taaatacaca gaagtttcaa gagccttgga 300
acagaattac aggggaacta tataatgtata tgtatatttt attaaacacc catcctgcac 360
tatcagtatt gcactaatgt ggaatttgaa agactatttt gctgatactg tatatatgag 420
catcattcct ggatttagatt gttgtaaaga caatctgaaa gatctaagggt tttaaaataa 480
tttgggtttg aaaatatata gttgtcctga aggaattgct gtcatacatg aagttgctcc 540
gagctgtcct tatcccctcc tggggccaggg taacccaaa 579

<210> 1244
<211> 477
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1244
gaaagctgac agtctgttct ttgtaaactg cctttccctg tttttctgtt ttgttttggt 60
tctcaagttt cattttttac taagcccctt ctgacaccta ggcagataaa gataagagta 120
gtgcgcagta caaatgtcag ctctgaagag gaggaagtaa atcttcaatg ctagggcaga 180
tcttactat ccgtgatcca gtcttaattt gagcatgaga gcaaaattta gtcacttaca 240
caagaagcaa aagcaaggaa tagttgttgg gtttttggtt tttgggtgtt gtctntnttn 300
tntttttagg caagaagtgt tgccggtagg natgtgtgct ttctttgcct tcctatttcc 360
tttcaaagaa atccctgtaa attcaaaact gtgaaattgg gttgccaaaa actgttgncc 420
tcgttagatg cctccaacag tgtaaactna tactgcacca tgtccacctn tgggtcc 477

<210> 1245
<211> 697
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1245
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acaaatacga gaacgggtac attcaccggg tcaacctgac gtggcccttt atggtggccg 120
ggaaaccga gagtgacctg aaagaagtgg tgaccgcgag ccgcttatgt ggaaccaccg 180
cgctcctgacc ttggagggtgc gagtctggga aaggcgcgct cccgggggga ngcgcnct 240
gggaaggcga cccctgccct cagtgtcttc tgtctctgct tccccctcgc aatgctcctc 300
tctctgtccc accccgcgag aacactttac aacgacgagg agattcgttt ccaaaccaga 360
ggagatcaat tgtacttaca aagattccca tctatttaac tttattaact tctaccgtga 420
atgactctgc aagccttgct ggtccaagtg caatatgtaa ttataaatat ataaatagat 480
aagagcctat caatgtatct tttgtacaat atgttgtaaa atgtagatca taggatagct 540
gactttgaca gtcacattta taaagtaatt cacttaaaga tatatatttt tccaacaagt 600
ttgcactttt gaaataaacc ttctttatat gctaaaaaaa aaaaaaagat nggcggantt 660
tccttggggg gtaattantt gatgcgcgtt aangcgg 697

[illegible]

691

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------|
| ggctatcgca | tcgagctgca | ggcttgcaac | caggacaccc | ctgaggaacg | gtgcagtgtg | 2520 |
| gcagcctacg | tcagtgcgag | gaccatgcct | gaagccaagg | ctgatgacat | tgttggccct | 2580 |
| gtgacgcatg | aaatctttga | gaacaacgtc | gtccacttga | tgtggcagga | gccgaaggag | 2640 |
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| | | | | | | | |
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| <400> 1251 | tttgaagggc | atcactttat | tccaaagttg | atcattagtg | agggggattt | ttacagtctt | 60 |
| | ctttccctcc | tccctcagct | gcctcctggt | tagagatgct | aacaagaatt | acgatggtcc | 120 |
| | taagatactg | gaggaagtaa | aaaagttgaa | ggccctacat | attttagttc | acgtttggca | 180 |
| | tttcttggtc | tttaccctat | ataaggcaag | gagaaaaaga | catgaaattt | aaattacaga | 240 |
| | taaacacaag | tgtattagtc | cattttcaca | ctgctatcaa | gaattgcca | agactggata | 300 |
| | atttataaag | gaaagagggt | taatttgact | caactgtcca | catggctggg | gaggcctcag | 360 |

gaaactttac aatcatggca gacagttgaa ganggaacca aggcattctt cacaagggtg 420
cnaggggaagg gagaattgaa cnccagggaa gggactnatc caaacnt 468

<210> 1252
<211> 410
<212> DNA
<213> Homo sapiens

<400> 1252
aaccaaagct gtaaaccatct ctaattatat ttaaaactgt agagtgcagt acattaacat 60
ttaacaatca gacactaaat tggagtgcag ctaatagcat tgtgtttatt agaaattggg 120
caccaagtcg tctttcacca gtgacaacag aaggaacaga aaacctccat ggccaccctt 180
ccccaccacg ctgctgtgttc aggaagagtc ttgtccaaat cccaccccc tgagaagatg 240
aggattgctc tgtggaaaat acactcagca gaccagacac agctcagcgc ccacgtctgt 300
tagccttagg cacttggggg aatggttttt tttcccagag aaagaaagcc acttttaaaa 360
aagcagtaat caattaattc agaatgaggc aaggcttaac cttctattct 410

<210> 1253
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1253
tttgacatt aatgttcatg atacctttat ttgtaatagc caaaaccagg agatagtaaa 60
atgttcatca acaaagcagc agataagcca actgtgggtc atccatataa cataattcta 120
ctcagtaaata aaaggcataa actacagata cacaatcaac atgaatgagt tttaatatta 180
ttatgtcgag caaaagtgcag agacaagaaa tgagtacaga cagtaagatt ccatttatat 240
aaaattctaa aaaatgtaaa cagtctatag tgtaaaaatg taaatgtcta tagaaaaaca 300
gattaggaat tttctggggg cgaggggtgg atggcaggnc ggaggaagag ggagggatta 360
caaagtagcn cgagaaaacc ttttggggta atgaatatat acatt 405

<210> 1254
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1254
aactttttta acaatccatt ttaatcatct aaattattta caatacaata acatggattc 60
atccttttta agacatggga ttgtaaaaat caacaagtga atgatgcttc aaataatata 120
tttaaatata ttaatcaaat tttttcagtg cttaaaactt tttctccatg ggacagcagg 180
ctctggacaa aagtgcctag catacaagtt ttcccaattt ccttctatca taccagctgc 240
acataaaaag gttcatcacc tcctgtctcc aaagtgtctc cctactgagt gttcccaggc 300
agacaatagt tcctgggata gtgctgtttg gtaacagaaa agcccaagcg tagaggacag 360
attaaaaggc agggaccaga ccaccatggg atacaaatcc ccaagacaga ggatgcccc 420
atgcctttcc cccatgaagc cttatccngt ctgcctggta tctcccatga ttgccagggc 480
atagggttac tt 492

<210> 1255
<211> 470
<212> DNA
<213> Homo sapiens

<400> 1255

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| tttttttaca | tgaaaacatg | tttattgcct | gaataataaa | acttagctaa | ggagttatta | 60 |
| gaattaggat | tccccctact | tgaagtacaa | gtttccaata | aacagacaga | cagaagcaaa | 120 |
| accccaaagt | agaaagaata | cattggtaac | ctaaatcata | ggcatttgtg | ggtatgttca | 180 |
| tacaatctac | ctatttcttt | gtaatttact | atagcactga | tgacaaagca | tagacataca | 240 |
| atgagaaaga | gcaaatacag | atatcagtgt | gactgtgcaa | ccactacaaa | gcttggcctt | 300 |
| cttaaagtgt | gccactttaa | cttacacaca | cccacagagg | catcagaaat | ctccctggca | 360 |
| aacacgattt | gcctatagtt | ttgtggcaat | actgggttaca | tagaacaaaa | acaactctca | 420 |
| gacccatggg | ttaataaata | agagagaaaa | gaagtaagaa | accacttccc | | 470 |

<210> 1256
 <211> 395
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 1256 | tttttttttt | tatcttaatt | gtaaaagggt | tatcaagaaa | aaagattcaa | ggagcagcat | 60 |
| | ccaggaggag | accatgaccc | ccccggggca | agggggggcag | tggtagacaca | tgtagcagcc | 120 |
| | ccacagcaag | ctgctggacc | acaccctgac | ctgggtgggg | aggaggcaga | aaccctcgg | 180 |
| | gattgtaaac | ataggtcaga | gacagcacia | cctgacgggg | agcaggggcc | cacattccag | 240 |
| | cgaggcaggc | agagggcagg | tgggcatgga | atccctcgca | tggctgggca | agcaggcccc | 300 |
| | tgtctttttc | ctcttaggtt | tcccattgtg | caacaggaag | gatcttggga | agacagtgcc | 360 |
| | acagatccca | aaggaccctg | gggatcctgg | ggttt | | | 395 |

<210> 1257
 <211> 227
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1257 | tttcagcaca | gagaggcttc | tttattccaa | ggatctgatg | ttgcaagatc | taacatttct | 60 |
| | acccccaggc | attctccacc | tgcccatcca | atctgctaaa | tagaaatcat | gattccttct | 120 |
| | tatagactcc | tccgccttcc | cttcttcctt | ctttaattct | gcagtggggc | catggggaga | 180 |
| | aagagggaag | agggagaaga | gtagctttct | cactagtccc | caggcga | | 227 |

<210> 1258
 <211> 429
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1258 | cctcaaaact | gctttattag | gaatgtacca | gggattgagt | taggggagtt | ggacagcccc | 60 |
| | ggctcctata | ggagtcctac | ttctctccag | catcctgtgc | catcctcttg | acgtaatcgt | 120 |
| | tgtacattgt | gtacacagca | cctagcatga | ttgcacccac | tgacagggcc | tgcgtgcca | 180 |
| | ctcgggtgtg | aatcagggtg | atggacatct | tgggtggaacc | acgagacctc | agccggtaaa | 240 |
| | tcctgtatgc | tgctaccacc | aagcagcctc | ctaagcctat | aggaccagtg | gagattcccg | 300 |
| | agtcttcttc | aggagcttct | cagacacaca | gtcttcatcg | tcaggtgggt | accaccagc | 360 |
| | gtctgttagc | agacataatc | ctggacctgg | atgtaagcag | ctgagactcc | tatgctgcag | 420 |
| | cccgtccta | | | | | | 429 |

<210> 1259
 <211> 516
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1259 | tttttttttt | tttttcagca | aatgtttgtt | gaattttatt | acttttttaa | caaattactg | 60 |
| | agtaatcttc | cttagtaatc | atttctgtaa | ctcagataaa | aatagaaatt | tataagagtt | 120 |
| | tttatttttg | ttacttgtaa | aagtatattt | cctagagaaa | atatcagcag | tggtagagac | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cagaaaaagt | aagtgtgtgt | gttctaaaca | gtgattccaa | ctcaatgtgt | tcagagaaaa | 240 |
| cactttgacc | ctgtctgtgt | ttacagtccc | tgctgactgt | gtactgtcgt | atcctcagcc | 300 |
| ttgttctatt | tctttatttt | agctttacag | agattaggtc | tcaagttatg | agaatctcca | 360 |
| tggctttcag | gggctaaact | tttctgccat | tcttttgctc | ttaccgggct | cagaaggaca | 420 |
| tgtcaggtgg | gaaacgtggt | tctctttcag | agctgaagaa | agggtctgag | ctgcggaatc | 480 |
| agtagagaaa | gccttgggtc | cagtgaactc | ttggct | | | 516 |

<210> 1260
 <211> 233
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1260 | | | | | | |
| gaaagttcag | ttcagtttat | tacagtgtca | agtagattta | caactattgc | acttatcatt | 60 |
| ctggtgacag | aaggccaaaa | ctgaagattg | agattttcct | ctaataaaga | taggttttca | 120 |
| gaatcttcaa | tataagatgt | taaaattata | aaggcaaaga | tatatacctc | atgttccatt | 180 |
| ccatatacct | cctgctgttg | tacagtttgc | tgcaaatgat | aatttaattt | ggg | 233 |

<210> 1261
 <211> 178
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1261 | | | | | | |
| ttttttttta | cttattcact | caacaatcat | ttattgtttg | tgtgcaaggc | ctgtgttagg | 60 |
| tgccaagagc | agaaggaaga | agatacaaat | atgaatgggc | atattctgcc | ctccaggaac | 120 |
| atacaatcta | agagtgatta | attgcataca | aataattgta | ataccagata | gaatgttg | 178 |

<210> 1262
 <211> 190
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1262 | | | | | | |
| ttttcttttc | aatttcctta | ttcaaaatgg | gtcaaacgta | ttttagttgg | aagccaattt | 60 |
| ctgagaatgt | accatagaat | atttattcca | ataaatctac | ttactgcgaa | ctgaacatac | 120 |
| tctcggcact | gttttttaag | cacgtacaat | ttggctatac | attgggtggc | ataaacttca | 180 |
| cttcttaatc | | | | | | 190 |

<210> 1263
 <211> 430
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1263 | | | | | | |
| gaaagctcaa | attccagttt | gctttatgga | tctgacaaaa | cttcgccaaa | gtcaccctgc | 60 |
| accaagcctg | actctccagc | ccagctgagc | nttgtgttct | caacttgggg | ggtgggtggc | 120 |
| aggtggtctc | ggagttagga | gctctattta | cgcctgggta | gagacttcta | agctgctctg | 180 |
| tgtctcaggg | tttctgtggt | ggataatcga | aaacaagact | gagtcctaag | cacatttcct | 240 |
| gcacaaaaaa | tggcctctca | ctgctatggt | caggaatcaa | tgagcatcat | cccaaatttg | 300 |
| aatcctctaa | ccccgcctc | aagagacaca | taaggctcct | taacttttgg | atttccaagg | 360 |
| ctgatcagat | gaaagtttct | tcagtttgta | gacttccaga | ggctatgtca | ttcctgaatg | 420 |
| ttaaggacaa | | | | | | 430 |

<210> 1264
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 1264
cagatataga taaaacttta ttatacata aaaaattaca ctttaggaat tctgttccta 60
aaagcattct cttagtaaag ctcaaaatga aaagggtgaa aggggcagtg aacagctttt 120
taactgtgta catactgcag tcacaagcaa ttttttaagc tgcaaaaatc atctcttcta 180
agtagcatga gcttttgaaa ctgcagactt aaatctcatg atggcatcaa aagccaaagc 240
gaaataaatc aatattctga aatagaagac ttggctgtcg atgttaattg ggtgctatct 300
ccaaccactt tccatcatgt tacttcttcc tcttaggtgt aactcaagaa ataacttttt 360
tctaataata cctatcactg catggaaaaa atgaaaagag aagtga 406

<210> 1265
<211> 460
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1265
ttttactttt tgaagaatat ttattgacat gggaaaatgc tcacaatatg ttaaagaaag 60
caggatacaa atctgtaaag acagcatgat cccaatcttg tagtaaaata aattatatat 120
gcatagaaaa aatacaggaa ggaaatacac taaaacatta acagtgatga tctcaggatg 180
gtgggatttg gggtaaatta ttaattttat tttctgcatt ttccaaactt tccacaatga 240
acatatatta cttttataat cagaggggaa gaggtcaata caggtgacac ctagtcctgg 300
gaggtggcga gactgatgtg gcactaaggg ggtgtttaga gtcacttgta ctgcctcatt 360
ctgtgtccnc ctttataaag aagggataat aacacctggc cctggcctgg cctcccagga 420
ctactggggc atctgaaagg ggtcacaata tctggtgatt 460

<210> 1266
<211> 425
<212> DNA
<213> Homo sapiens

<400> 1266
tttttttttt ttaaaagcaa gaataatctt tattccttgg aaacacattt gtaaaaatgc 60
tatcaataag atgaaaagat tcagaacaca tttatttgta tgcagcacat aactgagca 120
tcagaacgct tgctaaaatg gaatacacct gtaaacaaat gccttaggga gagtttatag 180
gtagtcagct cactgtgca aggtatgcag ctgatacctt cttgctgaat agatttttgc 240
agtagccaaa aaagatcaga ttttagtaat aaaatatctc aaaggatgtc aaacattttt 300
tagagggcct aacatgggca aaattacaat tacatatata aaaatggcac aagaatcaac 360
tgatttcaca gaaatactaa taaaacattt cagggtctat tattaagaga aaaaaatggt 420
tgact 425

<210> 1267
<211> 451
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1267
tctcaacatg gaaaaactgt tcaggcacia agattaaaca agcccgcgtt gcatcccttg 60
gattgtactg aatcactggg tccccagcc tccctaccta cccctgcacc ccagatctgc 120
cttccccata ttcattggcct cctcctccaa agcagcccaa agcagcaatg atatttacta 180
ttttatatca atctcttgct atatatatat atatctatat atctatatat ttgtctatcc 240
tatatatata taggatttta atgctttgaa tgagtgaagg agtgaatagg gaaagagcac 300

<400> 1271
gagcacaag gtccacttta cttacatgaa ggaacataaa ggcatgagaa acagtcacatc 60
caataaatgc aagacatgag cataaaagag gttctctgcc tttccagcgt tggtattaca 120
gagagaaacc tacaattatt ttgttaaaca aaattcaagg ctccaggact catctctgga 180
gctgatatgt cttaaatact attatagtag gaaagggaga ggagaaaatt cccacccac 240
tccccgatt tggcccggtg agcttccctt tgagggtgtg tgacttgcca tctgcaaaag 300
tcatggccaa aacaggaact aacaggccaa actaccatca atctagtctt ctacagcacc 360
ctaacagagt gccagggtcc tctgtcncct cgcacactga ggncaaagtt ccaggaagtt 420
tactgccggt gttaggaggt gagctcaagt tcagtgtctg ncttct 466

<210> 1272
<211> 397
<212> DNA
<213> Homo sapiens

<400> 1272
gctgattgaa aatgatttat taaagtccaa ttagtatgct tttcatttca aataatccat 60
atagcctcca gaaaaatatg cacatgtgta aaagtccacg ttcatttctt tcacttccaa 120
tataaagtat tctgtatttt gtataaagta cgtgcaaaca cttttctgct aatcggttcc 180
ccacattctt ttcactacag gtactttaca agtctgccct ctgctcaaac actaaccgtg 240
cactgacatc ctcttccta gacagccatt catctcccggt acttctttct ctacagacatc 300
ctctgacct cccctgacct gcttcaccac tgtgttacct cactgggttac ttgttacagc 360
aaactgatgc aactactagt ctacctggga caacata 397

<210> 1273
<211> 352
<212> DNA
<213> Homo sapiens

<400> 1273
aaagtaattt ctttattgag aaaataaaga catgggttct aaggaaaagg gctaaaaatg 60
accatgtttc aagtacacta gtgaatagca agtgaaacaa aatgtcttaa gcatctatat 120
gtcttatctt agatacatc aactattgta ggaacattat ttctcttatc tctcaggaaa 180
catatttagt tataatatga aaaaaaact aaaattgagc ttctaataga aaatcaaacc 240
ctatcagaag aagagttacg tggagtaagc gattttatc cgatgctgga cttactctcc 300
ctaccataaa atttgataa acaacaaaca tttattaagc acctaccaca tg 352

<210> 1274
<211> 483
<212> DNA
<213> Homo sapiens

<400> 1274
tttttttctg ttttaaactt tttattttta atgatgataa aattttaagc taatgacata 60
attgctttat ttttatttac tcattcagag ttaaactccc tcaatttctg aactactccc 120
ttgctgagag tcaggttctc agttactatt acaaaattta ataatagaac tgttccatat 180
gcacaagggg ccaagacaaa ggaatgggaa ggctagagaa taacattaac atccacacac 240
tgtgtactgt gctctctgct tgatgctttg cccacagtga taatttcttc atatagtgca 300
aagtagtttg taagggtggt ttaaattcat gaggtctcaa gtactctctg ctttatagga 360
cagatgtaga tacggtttcg gtttttctgt ttttaacagt tttataagag tacaagtgat 420
gctgttttat ttgaaggccg agagcttcgg ttcctaaccg aaattggcta cctgggctct 480
cta 483

<210> 1275
<211> 412
<212> DNA

<213> Homo sapiens

<400> 1275
caccttttctt ttgtttatatt atattcttta gttttgtgca cactttgagg aattgattta 60
ggacagggttc atactgaaaa aaacctcagc tgatgttatc tgtgggggct ggggaggggtg 120
tcagggacat ttggtggctg aggagagcgc gtcactgcta ttgaatagct ccatttaaca 180
ccagccatgt ctccgcgtct caggcacttc tgtgaaatgt tctcagaacc ctgtgggtgac 240
tgcggcacac ccggcaggcc ttgctagcac acgccgccca ctggcagggc ccggccaccc 300
tggtctgttc cattctttcg tagggttttg ttcattttac tatttgtcat ttttctagga 360
aacatctgtt tttgtaaaac aaacaagggg gaatcaagta ttttaaccac aa 412

<210> 1276
<211> 634
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1276
tcagaagcac taaaaaaatc tttattggat gtccgcaaca acccatgcaa tggggtagga 60
gttgagaca ccaggaaggc ttggggatag aaacacaaga tgcaagtcct tgaccacaga 120
atcagatcac acagtcacct ttcttccac aatatcccag ggacaatgaa agcaagttca 180
accaagatgc tgaaagagct ggatcattcc catctcattt cagtggcatc acagattctt 240
tggagttgca tgcttgcaac gtggaaatgt gtttcccaca gcccactag ggattctcag 300
gctaggaagt tgccaaactg caagactaca tctactgacct ggtatcccag gagcagcagg 360
agaggaggag gaggaggagg agttgtcctg ttctgtcctt gagggggcc cttcatgata 420
acggggaaac tggccttggc ctctgttacc tctctgtcc ctgtcccaa tcttgggagc 480
atgtgtgagt tctgtcttcc tctaccacag tctcccctct gcntccctcc ggagcactcc 540
ctgccatgac ccactctcta aaatgatccc cctctccttg ctaatgacat ctcatatggg 600
ccagaagana gcanctgatg gattagtcac ctaa 634

<210> 1277
<211> 436
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1277
tttttttttt tgcacttccg tgtttaataa gccacatcct cagttgagcc tggggtgaaa 60
tgtgagatcc tgactctgtg cagtagtatt agtgggtggg ccaggngtgt gaataacatc 120
atcctcagta cagctgcaat tccagggcc ctctaccaca aagatggctt aagcaaaggc 180
agccagatgg aagtatgata tccaacagga aggaagtagg caggggtcac taaagtggct 240
ggtagccagc agatggaaac agaagtatgg ccccgaggga aggaggcagg tccagggcta 300
cagtgttttc aggtactggg gtttctatag gggcatttgc caccacatc tttggaaact 360
cccctggcct attgtgacat ggcagggtg cctggttctt gaaggtagag aaaatgctag 420
tggggaggag ctgaac 436

<210> 1278
<211> 411
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1278
 tgcacaaaca gttttatttg atgaaccaca gtgactaaca ggatcagaag acagtgcaga 60
 tattctgaag aaggcactgg gggaggttaag ggggtatcac agcaggcagc ctntctctgct 120
 tctgtcccag ttcacagatg agttccaggc aggaagtctc tgcaggtcac ccacggcggc 180
 ctacagagga caatttcttc ctttctagaa gcctcttcca gtgttctactg gatgctttga 240
 ggacagctct gggcagagga ggtgactctg tgaaagatgc tatcttaaga tggggagact 300
 aggctgtgag gagccccctc ccctctctc ctccctctgc cccagagct ggcgttcatt 360
 ccagggaggg tcaagatgtc cattcacatc aagctgggct tttcttatct c 411

<210> 1279
 <211> 213
 <212> DNA
 <213> Homo sapiens

<400> 1279
 tggacatctc agatgtgact cttgctgcca ggctagaatt taggctatgt gataattctc 60
 agctgtccta caatgcctgc ttcttgaaag aagtcggcac tttctagaat agctaaataa 120
 cctgggctta ttttaaagaa ctattttagt ctacagattgg ttttctatg gctaaaataa 180
 gtgcttcttg tgaaaattaa ataaaacagt taa 213

<210> 1280
 <211> 253
 <212> DNA
 <213> Homo sapiens

<400> 1280
 tttttcagct agaaataagt tattttattt taaaacacat acagattaat aaatattact 60
 ggaaaactta atagcctttt tattttacatg aggcaataac aacatgctat gactacatct 120
 ataaagcaaa atataagcag gtcttggcca ctgacacatg tgtctatgta tgctaattgg 180
 aagctcccca atacatgtct atgacaaaac ttttacacaa ccaatcaaca tttgacattt 240
 tttacatctt ctt 253

<210> 1281
 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 1281
 tccatgttaa gaatatttta tttgtttttt gagattacat agtcattatt gctgatctaa 60
 tacaatcact tagacataaa gatttccaag aacttctcag aaatgggtgat ctttagaagt 120
 gttattcctt tcagtaagat gacagaacta gatgattacg tatatagata tatagatata 180
 tatatatata tgtatatata gagtttagaa cctgtccaca tataatttgc tgggtgttgcc 240
 tattttcctt ccgtaatttt cctttattga aaaagcttaa tgcaacaatg cattttgatt 300
 cctttttaaa aaccacggca aagttaattt tgagaaaacc acaggagcag caatatcaga 360
 tctgtttaga gaaaagcgac gagcataaaa gctttgcagg agtatgtggc catggggagc 420
 cgtgctcata tgggcaagta ggatagggag ggaggagagc agagggaa 468

<210> 1282
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 1282
 ctcttttttt ttttttattc catttttaca catccacctg tttgcatga agtcacaaca 60
 ttttatcaaa atatacacac agcacaataa ccttttaaata gtatgggttg aattctaatt 120
 caactcaatt gactgctgca aacagcatgc atgggccatt gatcttgaat gatgcctacg 180
 gaggggctta tgagtcatga aatcaccagt catggcacga gaaggggtta aggttctttt 240
 cccaggagac ttatgcactt catttctttt cttgttatag tgtgagaatg gcagtgagtg 300

actgtgccaa tactggagtc tgctgagaat gggatggatgg aaagggttttt actggcaagg 360
gtgaaatgat actatctttt c 381

<210> 1283
<211> 309
<212> DNA
<213> Homo sapiens

<400> 1283
gcttttttaaa tgacatttat tttttctaata aattcaagta cataacacat tttcaaaggg 60
aaatttgaaa atactgaaca atgtaaagaa aagagataga acttatagtc ctatcattag 120
gagataatta ttaagtatta acttgtgctg acttatgctt tcttttttca gcctatagca 180
tctgggtctcc catccaagta ataacctgga tcaatcctgc ttaagtttcc aatattaggc 240
atcttcaggg tggtgtgacc acagatgatg taactattaa cttttaaata tttttctggg 300
ctttacata 309

<210> 1284
<211> 447
<212> DNA
<213> Homo sapiens

<400> 1284
aaatcattca gtttaaggct actagacttt agatgagtga ccctgcaggg ttataaggca 60
ttctgctcag cagtcttgta aatagtccta tatgaaagag ccctgctact gttggacttg 120
gtcccactct ggtcaacctt gataacgtca tacgtggctt atggactgga tagcactgga 180
ttccgcccga gccctggcca tactgtgcca cacgttgga gaactgtggg atgtagaatg 240
gagggactcc ttgtcagaca gtgacagcat catagcatat gcctgctgatt tggactttct 300
gtgtaacggc tgcttaagtt cctctggcac atgggaagta ctaaaagaag acagctcagc 360
ttcagaatat tgattatctt ccatttttctt cattttgagg gctatctgtg aagtgcctta 420
tatgatctag agcagaaagt ccacttt 447

<210> 1285
<211> 469
<212> DNA
<213> Homo sapiens

<400> 1285
tttttttttt tttttttttt tttctgctta aataccaatt tattgcaaac caacaccaag 60
gagctggaat agctttgcag gctggacacc tcactctcct cgggccctgg acaagggaag 120
tgagtcaccc cgctttcctc ggacctcagc tgggtgggact tagtggctgg ccaaactgag 180
gctgttgtgt ctaaaaagag aaaacaggca ggggtgtgcca gctctggaga ctggggcagc 240
ccaggggtgt ggctcagggc agagaatcac ccaccagaca gcgtggctca acgggagcaa 300
ggcgcgcagg gacaggctcc acaaccacac caagcaccgc agtgtggcac cgggaccaga 360
tgcaagtgtt gttcctgcca tggggccaat acccaatact atccctcagt cattcttctt 420
agatattggt ttgctgttta ttaaagcagg gcagggagtg gggagaaat 469

<210> 1286
<211> 467
<212> DNA
<213> Homo sapiens

<400> 1286
attttataaa cataactgca tctttaattg ggtgtacttg aataattgaa aactgaacag 60
caaatcaatt tttatgggtc attttctcca acaaacaaca atattaaact gtatgagaag 120
taatatttat tgcaacaggc tatgagggtg aaacaaataa ttagtcttac aatttgctag 180
aagcatgaca gagcttacta acattttgaa gaaaaaacag caaagaaaga aatcatcaaa 240
caagatggta tcttgacaaa ggcacagcgc tccacaactg cttcatactc tgtgcacaag 300
aaatcctctc gagagaggag aggagtgatg ccaaattgggc ttacattaga cccgtggaca 360

ctaccactgg tattattcat acaaccaagg ctctacaaca cccctctgga gaaaaagtgc 420
aacacaaaaat ctgtgtaaca aaggaaagca aaagtagcaa taagggc 467

<210> 1287
<211> 268
<212> DNA
<213> Homo sapiens

<400> 1287
aaaagaaaaa tgttaagact ttattcaaga tgtgtatcag gcattataac aaaacagcag 60
aacttcaacc tttggaatac tgtaatttta catccctttg atgcacagtc cagtatacta 120
ttttattaca gatcattcta tagggactac agacatgaac tagaggaaat gtgcacagtc 180
aaaatccaga atatcagctc tgggagtgtg cactgttaga ggatgaagca catcctttgc 240
catttcaaat actgtgccag gtggagga 268

<210> 1288
<211> 342
<212> DNA
<213> Homo sapiens

<400> 1288
ggaataatgt ttattttaaag ttacatttca gaggaaacta tcttcaggag ggcataaagc 60
ctatattggc tactgcaaaa caaccagaag ttttataaaa tatttctgat ttaaattact 120
aaggcactat agataggcac ctatattaca tacaatcttc aaacattttt aaaagttgaa 180
actatgtatt agttgatatc taaaatatta aagcccctga caaactgaac ggctaagaac 240
ttgacaaaat gagatgcctg tttcaatgat tctgttgcca gcatattaat taaaatacaa 300
tttgagattc taaattacac gatccagcct tagtccaggg ac 342

<210> 1289
<211> 379
<212> DNA
<213> Homo sapiens

<400> 1289
tactatctag agtctagagc tcacagtaca gagttttgtg aaatacgggtg cctatgagaa 60
ttttcccatg gtacacagaa gccacagagg tgccctgaag cacagagcca ttgttggcat 120
acacgggtgct caccctgggc ttctcagaca aaacattctg gatgcgaagt acttctgatc 180
ctggagggtc ctcagggtta tagttcagta gcttcatagg attaggatgg catcctgccca 240
aaatgtctcc tgtggcagga tcgacagtca gggtatccac taagggtgcc aactgtatca 300
ccttcagttg agttaaatcc cagttatcat gtttttccat tatgtgaatg gtcctaactg 360
ctacatcagc tacatagac 379

<210> 1290
<211> 325
<212> DNA
<213> Homo sapiens

<400> 1290
acgtatagca aagtatatgt taaacaaatt taatgaccaa atgatagact ggtaaaaaat 60
gtgcctatca ccaagggtg atacctttcc tgtggcccag gcctctgctc tttaaaaatg 120
gggcacaaat acaggcaggt aagagacaga cagctctcat cctgcactct tggctttctg 180
agaggatatga cccaagggtc ctggagtcta gctgctgctt cctcctctgg gaaatagagg 240
agtgatattg gtagtaccta gggcatagca ctgctgggac aattcagtga tttggggact 300
gatctccata tcaagatgac ctgat 325

<210> 1291
<211> 393
<212> DNA
<213> Homo sapiens

<400> 1291

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| ttccttttaa | aaacttttatt | taaatggaga | ctcttagtca | aatgattgga | aaaccaataa | 60 |
| cgaaaaatag | ttcttcaggt | tcttctcctg | gaaaggcgga | ggacacacca | aactgcactg | 120 |
| gccctgtcag | gggacacggc | accctcgtgg | gaccaggctc | agccctcggg | gtggcacgag | 180 |
| gtcctgcagg | ctgcaggacc | gtcacactcc | agccccgtct | ggtgacccaa | cccgggccccg | 240 |
| tgggtgcatgc | tggggaaggc | cactgcgaac | ccctgggctt | cggctcctga | ggaggcatgg | 300 |
| cccacacctt | gcccggccat | aaatatatac | agattcctgg | gcatccaggg | caccaggacc | 360 |
| gacgcagagc | tggggtcctg | tcctaagcc | tgt | | | 393 |

<210> 1292
 <211> 351
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1292 | atcaacaatc | ctttaatttt | ttatttttat | ttttttccct | gggatttcga | accaatatac | 60 |
| | tcctagcctg | aacaacatag | aacatttcct | ttccattttg | gtagaaatta | ttttttaatg | 120 |
| | taaattatat | tgtgttctat | ttgtttccaa | tgtcttgaaa | agttcaatca | cttctccaaa | 180 |
| | ttctccgaat | aaacataaga | aaatatctct | ccccagcact | acccggtccc | ccagtatcac | 240 |
| | catcctagga | ggcacttcca | cttcctctat | catcagggaa | ggagtgtgca | gttctgattt | 300 |
| | agctcctcag | tggagtaaag | ggaatttaga | ggaaggggga | tttctgcaga | a | 351 |

<210> 1293
 <211> 433
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1293 | ttgttttttt | tttagatcta | ccttcagttt | tgtcattttc | cagtattcac | aatcctttca | 60 |
| | aagtttcctt | taaaggggaa | aaaacagagg | cttgtaagaa | atatgctcaa | agaggttcta | 120 |
| | ggacttacag | acatcccatt | ccagtataag | atacaaaagg | caaaatgttt | cctttaccca | 180 |
| | tgatccaggc | tagctccaag | aatcctaaaa | acgatgtttt | aatttggaat | ctgggatgcg | 240 |
| | gcgttttgtg | gattaacatg | tgttctgaca | caaggactac | tctacttcct | taagaaacat | 300 |
| | gagcaaaaaat | gctttgctca | acaacctagt | tatgtatgta | caaatggtga | tcatggtcct | 360 |
| | tactgataaa | aaacttataa | gcaatttctg | ttacaaaatc | gatcttgcta | acagggtctg | 420 |
| | gtgtataagt | tag | | | | | 433 |

<210> 1294
 <211> 323
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1294 | ctgggtgcaa | gaggtttatt | tgggagccat | cccaggaagc | ccaaggcggg | ggagtgggga | 60 |
| | agagagggaa | gggagagccc | ccgcagaagt | acatgaatga | gtgggttact | gctgcgggca | 120 |
| | actgggactc | catcctgctg | ggcatcctct | gagagtttat | gtagaataca | cttcagaatt | 180 |
| | gtcctgctca | aggacaatga | agctgaggtc | ctgctcctta | ttgactcagg | gttgctgctc | 240 |
| | ctggggacat | taacccccca | acacttctag | cttncccagt | gcactgactn | agcacacagc | 300 |
| | tatggccacc | aggaacctt | ttt | | | | 323 |

<210> 1295
 <211> 423
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|-----------|------------|------------|------------|------------|----|
| <400> 1295 | tttaatttta | aagaaggat | atttatttaa | caaacatgta | tgaactattc | attaacaatc | 60 |
|------------|------------|-----------|------------|------------|------------|------------|----|

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| caggactgtg | gaggacaggg | gacagaaaca | agcctcgaag | agatcacaat | atggtggagt | 120 |
| gcatgcatgg | cacacctggc | tatctgaatc | agacgtttgc | ctctgtgtgt | gtgatgaaga | 180 |
| cagtagtgag | tggaatggac | agagagtaac | tgtaaattct | gtagggagga | aaacgaacgt | 240 |
| ttactcattc | tctaacagtc | ttttgcttta | ctatggtcat | atacaacagt | taatctccca | 300 |
| tcctcagttc | ccagataccc | accagaaaac | cggtaattaa | cctctggata | aactttcact | 360 |
| gattacagat | gaggagcgag | gcaaccttaa | gccataaaca | atattcctac | agtatggggg | 420 |
| agc | | | | | | 423 |

<210> 1296
 <211> 389
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 1296 | | | | | | |
| taatatatga | tttttattga | acatgttcac | ctttacatta | ttacaaacat | tttacaaata | 60 |
| aaaagttttt | gtaaaaaaa | aaaaaaaagg | aaacatttcc | tgaattatca | ctggatagtt | 120 |
| gaaacaaaga | aataaaatat | ataaatatga | aggtcattct | ccaagtatta | gaacagaata | 180 |
| cggatggaat | cacttcagta | aagttattca | taaacatttg | catggttacc | cacatactgt | 240 |
| atcaccttcc | aaaaaatcaa | acacgagagg | aagggggaacc | tcaaatagaga | tgtcttttct | 300 |
| ccatgggatt | tggtcaacgc | atatcagtaa | gataatttct | ttgctatata | cacaacataa | 360 |
| acatttgaaa | atgcagaata | cattgtgta | | | | 389 |

<210> 1297
 <211> 517
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 1297 | | | | | | |
| ttttttggaa | accgagtggg | gactttactg | atagtgcag | tgatgacttc | ggagaggctg | 60 |
| acggccggta | cttcagggtg | tgtttcaaaa | agctgccctt | ggagggaggt | ggtagggagg | 120 |
| cggatgggag | ctgcactcac | cccggcctgt | cccctccagc | tcagccagca | gtcacactgc | 180 |
| ccagatttct | ttcttttctt | ctgccgcctg | ctcagcccgc | tgctcaaggc | ctttgcacag | 240 |
| gctgccgcct | tcctccgcca | aggccagctg | cccagatactg | gtgaggccct | tgttcccttg | 300 |
| cagtcctcga | ggcaggctgt | gtctgtgctg | ggtgccaggt | ctaggtcttc | tctcttctgc | 360 |
| agagttgggc | tacacagagc | agctgttcca | gttcctgcag | gccaccgccc | aggaagaagg | 420 |
| gatcttcggt | gagtcccaac | cagtcagccc | aggctcctgc | aggcagtggt | gtttgctggt | 480 |
| ggctgctgcc | cctgcaggac | agtgcacccc | aactcta | | | 517 |

<210> 1298
 <211> 271
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1298 | | | | | | |
| ttgtgctttt | aaaagtcctt | ttaatacagc | atgaagaggc | tatatattcta | taggcgagcc | 60 |
| gtatacagat | tctccaggaa | taaggcacac | aacggaatgc | catcccaagg | gctgcacttc | 120 |
| ggagacgtcg | gagccttctc | cacgcacctt | ccgagctggg | cccacggggt | ctgttttgtc | 180 |
| tttttagctg | gactcacacg | tatggacaga | cacagacacg | gacgggggtca | ccgcatgggg | 240 |
| gcggaggagg | tcggacggca | aggttggcaa | c | | | 271 |

<210> 1299
 <211> 363
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| <400> 1299 | | | | | | |
| tttttttttt | tttttagtttg | taggaaaagt | ttattttaatg | gggagactaa | gacgatgcaa | 60 |
| gatggttact | agaaaaacat | ctttcagttc | ggataaatac | acaacaaagg | atcatagctg | 120 |

aaataccagt gaccatcaca ataggaaagg tggtcagctt gtggaatttt ccttttggtg 180
accttaagaa gtcatttttag cagtactaac catacagtat atgtcaggca ctgtaataaa 240
ctctttacaa gtggtacttc atttagtctt cagcagactg aggtagatac tattaatgt 300
ccccatttta caagtaaaaa aattgaggtt agagaggcca cagaaggtac ctgaggtttg 360
gga 363

<210> 1300
<211> 436
<212> DNA
<213> Homo sapiens

<400> 1300
tttttttttt tttttttgag ggtagagcag catctattta atataatttt tatatagaaa 60
atacaggcat atttaaaaaat ggaaacatgt aagaaagtat gtcacaagga ataacaaaat 120
atatcacaaa ataaaaaaag taacccaag taacaagttt actaaacaag acccagcacc 180
atgttgact ttctttgcat aagttccagg atgcccaggc actaccgagg agagatgatc 240
ctgcttttgg gagagccaga tggtcgtgca gtggttaaaa cccagtcctc cttttcctgg 300
aacagttatg tcccgtccaa gaagaaagac attgacatcg ggttgggctt acacattttc 360
caccatttta acagggagac tggcaaacag ctgtatgaca gcgagacccc gtccagccag 420
gcgggcagtc acactg 436

<210> 1301
<211> 358
<212> DNA
<213> Homo sapiens

<400> 1301
tttttttttt tttcccagct aattatttta ttttgtattt gtagagacag ggtctcacta 60
tggtgcccag gctgggtcttg aactctcagt ttccagcaga cttcctgcct cagcctccca 120
aagtgagcca ctgtgcccag ccagagcgtc cagttccact ggtgttgggt gaggcctagt 180
gagaggggtgg gcagagggcc ttgttgaatc tgaactgcag caagggctcg cagatctcaa 240
aggaggcagg gaagtgtgct ggggtcccgt cagcatcgca tgaactcagg gatggctgca 300
tttgaggcca gggtcaggct gtccctcactt atcaggggac aagagctggc tgatgccg 358

<210> 1302
<211> 379
<212> DNA
<213> Homo sapiens

<400> 1302
gagatataaa aatctgtatt tatattacaa tgacataagg acacagcacg gcccacacgg 60
tggacagggt gccggggcca ctttccccct ctagegcacc cccctcacc ggcaccaggc 120
cctcgtgtgg ccccgactc tggcacggaa cctgccctag tgcccaacat ggacctgggg 180
ccacctgct ggccgagggt cagggtcctc tgtgcaggca gtggggaggg ggtcccaggt 240
tcctgacag agggaggcag ggcacggggg agcctgcctc acccagcgga cagcacgggc 300
cggggcagac agagcaggga ccctagggcc acagaccggt acagggttcc accaccggg 360
gacacaggcc caagcaccg 379

<210> 1303
<211> 515
<212> DNA
<213> Homo sapiens

<400> 1303
gcggccgctg tctgggaggg gcccttctga gcgagcggag ttcggcgtcc agttgtactg 60
cggccagccc agcttctccc catgcagctc gttctccgtg cggagcagtc cagcagcggc 120
ttgaagtagc tcaacatggc cgaggcgtc atgttgggct ggcccgtgat cagctgcatg 180
gcttccggcc acggcctacg tgaagcccag cttcatggcg gtcgcaggcg ctgcccggcc 240

1990年12月

| | | | | | | | |
|--------------------|-------------|------------|------------|------------|------------|--|-----|
| <400> | 1304 | | | | | | |
| tttttttttt | tttttttttt | taagatgtta | taagtttatt | ctgaatctca | ttcaattgtg | | 60 |
| ttcaatgtgg | ctcaattctt | tacaaattaa | aattcttgaa | tatatgttaa | aaattaaaca | | 120 |
| atcttaaatgt | ttcttcctta | actagactgg | atacacgtct | gtttaactac | gcaaaggtg | | 180 |
| atgctggcat | ggcttactgg | gaccctaagt | gtggcgaaag | gactctgctc | cagtgaactg | | 240 |
| gcgagtgtgg | aacctcctga | caccttctga | ggacctcctg | cctgccatgt | tgctgtggag | | 300 |
| ctcgcactcc | tcaggcatcc | cctgatgttg | agtgatacaa | actctatcac | cggaatcg | | 358 |

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|--|-----|
| <400> | 1305 | | | | | | |
| tttttttttt | ttttttaaac | ccaaacactc | tatcctttta | ttccttccca | ggctattgca | | 60 |
| ggaaaagtct | tgtttcccaa | acgctgtgcc | tttctcctct | tgccttcaac | cctggagggg | | 120 |
| cccaactaca | caagtggctt | atttggagaa | gggaatgagg | ttgaataaag | aaagctcagc | | 180 |
| ttccagaaca | ccacactctc | ttggttttct | ctgaccttaa | ggtaactcct | tctcagtcct | | 240 |
| ttggctgatt | tcccatttcc | cagagagccc | aaqq | | | | 274 |

| | | | | | | | |
|------------|------------|-------------|--------------|--------------|------------|--|-----|
| <400> | 1306 | | | | | | |
| ttttcatgaa | tacatatata | tttattttaat | tcataatatata | gcatttttggga | tgggctggaa | | 60 |
| tattgtagag | agggatgagg | ctgtgtaatc | cacagatgct | catattttctg | tcactaggag | | 120 |
| agacactatt | gggccagagc | tcccaataca | aacaggcgctg | gggtaaagca | tttgataaaa | | 180 |
| aatagtccaa | caatagtcta | ataaatagtc | tagccaataa | caacaataca | gcatatgtct | | 240 |
| gaagctggca | gactacacca | taaaaggcag | ttttgtctga | c | | | 281 |

| <400> | 1307 | | | | | | |
|-------------|------------|------------|------------|------------|------------|--|-----|
| tttttttaaa | ccatttgacc | atgttatatt | ttaatttgca | gagacaaaaa | tgacaagcaa | | 60 |
| tttattttaca | taaaactgta | caaaagcaaa | ttaaattatg | caaagtattt | cataaatagt | | 120 |
| tggacgagtg | tttaatacat | ttcgccatgt | taagcatagt | tgcgtgcata | gtgactcata | | 180 |
| ataaacgatg | ataaattggt | ctctgcttca | ctatcaacat | ccaagtagca | gaacaatagt | | 240 |
| caatgattaa | cattacaaac | agatcgtagc | acactgaacg | caagtgtctt | aaactgtagg | | 300 |
| aaaagtctga | aagtaaacct | taggtagctg | aacaaatgat | gcttcctcca | gatgttatca | | 360 |
| ttataccttc | acctagggtc | caactcacaa | | | | | 390 |

710

<212> DNA
<213> Homo sapiens

<400> 1308
agattttttt ccgtagaaatc actttttattt ttattttttt ccacatagat gactttcatgt 60
caactacaaa aatcatgaaa tgaagaactg attgtgaaac tgcaaactca aaatcactgg 120
agtgataaac aggtttttccc ccagatgact taaaaaaaaat aaccaggata ccatgaattc 180
atgtttaagt agtaaacatg tcatatattt aaaaataata aatatagaat agcagtacag 240
aaactaatag cataaacagc atgaagtata ttttactttt aagacagatg aaattttctag 300
gcacagcttt aggcattaaa gaggacacag aggcataagg tagagtgcac tgctctgtac 360
aaaaatacag tctgaataaa ttacattgct agccatacaa ttagacgtca cttaccagtc 420
agttcattgc atgtttaata at 442

<210> 1309
<211> 466
<212> DNA
<213> Homo sapiens

<400> 1309
ttttttttat actaaaataa ggttattttac ttcaaaatga tacattggac ataattctgta 60
tatagaacaa agcaagtaat ggtaaactct taaggcacct tttaaaccag atgctgtaca 120
aaatacattt agtgtgttac acgtcaaaga cgaatctata tttttggtgt tttaacaactg 180
cctgataaaa ctgcttgctt ttacccttct ttcaatgcct atgtacagtt tcccctaagt 240
aagcaataat gatatttcca ttttatacaa tatatactac atttttagttt ttaaattgggc 300
caggacaaag gtcactaaaa gggcttaaat aattccatag aaaacagaat acagagcata 360
agctaaaatt acaatagtta atcctttaca agagccatat tcacatactt tccttatggg 420
accatcatta cacgtggctt cacaggatgc tgtgctggat tttggg 466

<210> 1310
<211> 421
<212> DNA
<213> Homo sapiens

<400> 1310
tttttttttt tttttcattt tgaaaatgct ttaataagtg ttgacaacac tgttttgcaa 60
aatgtaaaga tactatacaa attcttaata caaaaagaat aaattaaaag cagatttctt 120
tttttaattc tgcaactttg tctacaacgt acatcttttt cattgattac agttgaacag 180
aatccagtaa aatcatttta catgctctac agtcagtttc aggagcaacc taatcttttt 240
tccccatta ttaaactaga gtccatttta cacaacttgt aataaactat tgacattaat 300
gtatatgtaa aactttacac ctagttaact aagcagtaac tgggtcatctg atagcacctg 360
gatgggggtt gctatattta gaactaaact aatactgaat gaaaacaaat tgggaatttta 420
a 421

<210> 1311
<211> 441
<212> DNA
<213> Homo sapiens

<400> 1311
ttttttgagt gaaatcaagt gcagttttat ttaagaactg gaaagaataa tcagtatctg 60
tgaaagaaaa tccaatttag aatattttaa taaacattta tgtaaaaaga agagtagaat 120
aattactccg ttcagttcct ctccctgcaa tgggataggc tgcctctgct gcagatggct 180
gggtcttcca aacccatgac aagtgccacg gcctctgcag cagtggccca gagagtaggc 240
acttcccagc atgacagaga ggccgaggca ttctaaccct gccaaaccac tacaaaagca 300
aactaggggt ggcaagccca actacctaag gcaggaagaa agtgcagtga agggacagtg 360
gtgtgctgtg cgtatcgtgg gggatcccta agcagctagc tgttggcgag atcttaccaa 420
gcctgatcgg ctaacgcagc t 441

<210> 1312
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 1312
 ttttaccat gcaccactat ttactgaggg ttccccacac gtcagacacc ctgctagggg 60
 agtccccaat gtcattggaca tgccaaatgc cagtgtctct cgcctctga gtctcccga 120
 gtccctgtgc ctctgcagt cagggtgaca gtgtcagtc tgggcaagtt gctgtgcctg 180
 agctgaaggg gaggcctcgt cccgggcctg ggccccctgc cagccactgt ctgccttgct 240
 gtctctgtcc ctgcctcct ctggtatcat gcgaggcact ggctcatctg gaagcagatg 300
 ctctggatgg ggttgggcag ccacaccgc tctccaatct ctccccactg tttggcccag 360
 tgtttctgtg agaggatcag gacaaaggca agaaagccca ggaggttcac tggctg 416

<210> 1313
 <211> 195
 <212> DNA
 <213> Homo sapiens

<400> 1313
 attttttacca tgtgcgtatt caaccaaatt tatttttgaa cattcagaac accagattat 60
 cacagattaa aaagaaagca ccaaaaatta ctacacatta atacctgagc agagactgaa 120
 ggcaaattat catctattaa acctacacca taatgtctca acacaggtaa aaacattcac 180
 aacacactct acaga 195

<210> 1314
 <211> 263
 <212> DNA
 <213> Homo sapiens

<400> 1314
 tttttgcaga tagaaacagc tttatttttt ccattcagggc tttatcaaatt agcttggttca 60
 aaaagcatat acaagagcaa aaaataccac atgcagtcaa acttcttttg ctttatagtc 120
 attggctttc ttttagaaaa gagtgtgcac ttgaataact tctaattcaa acattttcca 180
 actgtttcta cttcattttt caagtttagca acgacagata catttttagtt aactgtttca 240
 tattccttat ctttattcat act 263

<210> 1315
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 1315
 ttttggttta caggttatat ttattatttt ctatagtatc taaaaagtaa catatattgt 60
 taagactttg ttaaaaataa ctctttacac agctttcgga aggttaactgg caaacaaggt 120
 ttacaagtaa aagataaact tttcaaacta aaatcagttt gttgtcttta cgcaatttac 180
 agaagcaagt tatgattcaa ttttaagtatc tgaagcagtt tccacaataa agcattccca 240
 agaaatagaa aacggagctt agataaagca ccagctgtca cattgtcacc aagttaacac 300
 tggttcctca ctggtctcca taacatgatg gagagcagga gaagaaaggg aaggaacact 360
 tagagaggaa aaaaaaaaaa ccctgaaatc tgaaattaca ttact 406

<210> 1316
 <211> 123
 <212> DNA
 <213> Homo sapiens

<400> 1316
 gcttagagaa aatgttttat tttcattagt tgacaactag ttgttcagtt gaatggtaag 60
 tttcacactg catcctaaaa taagacagat actctgctgg caagtagaaa atagactaat 120
 ttc 123

<210> 1317
<211> 397
<212> DNA
<213> Homo sapiens

<400> 1317
cttttttttca ttttttagtg cacatatgtc ataataaagt aatgcccagc taagtgctat 60
aggggaaggc aaagtatgct ggctggctat aggaagtgc accatacact gacaatcaca 120
ccatacaaca gcgccaaacg actattcaac cacttatcag acacatatga aaatccaaaa 180
tgttttatatt tttttttttt tccttaaata gagataacca gtaaacaatt ttcagaactt 240
ggaagtttaa aaacgtgcat ataaaaatgg gcattatata ctttttattg aatgtggatt 300
gactgcagtc tgctaagaaa aatgggggtgt gggagctgaa gaaaaaggaa gttgtctttt 360
ttttttttta aggcttgctt gtgaaaggaa cagttgt 397

<210> 1318
<211> 358
<212> DNA
<213> Homo sapiens

<400> 1318
gttccaaatg tttaattttt taaaatagac aactaccttt ataaatcata cacctaactt 60
aaatgttttt ttccaattaa aggctgatct taagaaagct caggggatag caccagaaga 120
taaaggtaag ttggcagctt ttgtagtgaa agttaatttt gttattttaa tacttattcct 180
caggaacccat tgttcacttt gccagatttt agatgtttgt tcaacagaca ctacagaatg 240
cctgctgttg ggccaggcat tatcatatag caatgaacaa gacagtcaaa gtccctgccc 300
tcaaagagct tacattctac tcccattcaa gaatatagta gtttttcacg ttatttat 358

<210> 1319
<211> 311
<212> DNA
<213> Homo sapiens

<400> 1319
tttaagtgcc tatgggctaa gtcttttaag acttcaaaat atactcaaat gcttaaatta 60
tgacagcaaa gacttaatga aggtgttgag aacggagttg atacaaaatt aatagcttac 120
tttgatagct tagcagaggc ctgcaacagc ttttatcaag agtagtgtga cttttgctga 180
aacagcagtt ttcttcatgg aaggaatttt atagcagggg caaaatatat agaaacaatg 240
aaaaggtttt tagaaaaatt cccttaagat gttaattata gaattatctt gatcatttgc 300
acaagaattt t 311

<210> 1320
<211> 350
<212> DNA
<213> Homo sapiens

<400> 1320
tttttttttt ttttttagt cttctctaatt tttattacag ggcattgttg ggacacggga 60
gggaagtgtt agaggagtga cagggcagcc cggggccctc tcccacctg agcctcgagg 120
cctggcgggg gacatgaact gcagaggcat cagataaggc ctgagaaagc ccaggccatc 180
attttccatg ggaccaggct ggctcaatgt ggaactggcc ctcccagagc agcaggagaa 240
gggctcgcat gggctgcccc cgtcacctgt gcctgacagg atggcgggga ggcagagaga 300
gagcatcaga cgccctccct ccccataagg ggcattgggg atggggacac 350

<210> 1321
<211> 374
<212> DNA
<213> Homo sapiens

<400> 1321
ggttgcaaca tgtttaattt ctgctgttca cactggacac tgcatcatat tagtgtcggc 60
ccctgaggca ccccttcctc gcctgcacaa aggaggacga gagatgaaca ttcagaggca 120

| | |
|---|-----|
| gaaaagggca ataaaaaaag agctgtgtat gtgacctcca actactcaga ggtgggggaa | 180 |
| aacagcccca tctgtcttgc actaaaaggc tcaccaaggc caggtgaggg gcaaatggta | 240 |
| atactgggag ggggtaacac aaggagaagc gacatgagta caccaagatg tcaaagctgc | 300 |
| gacgggctgg atgagggagc cccaagaggc catatgctca gggtgccagc cggctgcttt | 360 |
| tccttgtgac agcc | 374 |

<210> 1322
 <211> 395
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 1322 | |
| tttttttttg tagaaaattc ctttattata gtgcaaatta ctttcagcag tgacataatg | 60 |
| taacaacaca tttagcaaca ttttacacca cacagtaaat aagaaagtgt ttctttgaaa | 120 |
| atatgtcatc ataggaacat tatttctaca ttaatgccag aaaatgccaa ggccgtttat | 180 |
| ctcaaggcaa acagggtccc ctcttcctt ttgggtattt tctttttaac acaaatgaaa | 240 |
| tgacttgcca ttttaacaaa tcctcaattc taaaagtgt ctctcagggg gctttgaact | 300 |
| aaggtcggca agatttgaaa tggggcttca aaattttaaa taataatttt aaaatacttc | 360 |
| tggaatagcc caaaaagtag aagtcacttc tatta | 395 |

<210> 1323
 <211> 288
 <212> DNA
 <213> Homo sapiens

| | |
|--|-----|
| <400> 1323 | |
| caacaggaaa tatcctttcc tatatattgt gctattctgt attcactacc ttttcagttt | 60 |
| tttttttttt tttttttttt taagttaaata gcttttcagt aatggattct cccaggcact | 120 |
| aaactactta agccaggagt ataactactt caaatacact atgagaacct aaacttgggt | 180 |
| ctctggagat ctgctgccag agtctacttg ttctaacctg tgtatgcgca agatacacca | 240 |
| cattataata gttttgcatt tgctatcata cattagttat gtagaatc | 288 |

<210> 1324
 <211> 207
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 1324 | |
| ttttacctcc tttctgttgt ttatacttt atttgagaag agaccctaca taaactatgt | 60 |
| caggaggata caggtctaca cacgatttca tcaatcaaaa aatggagttg ttaacataac | 120 |
| attgaagata tgatactatg agaaagacag acatatgacc aaggagtatt tacaactctc | 180 |
| acttatgata tatttatatt gaagatg | 207 |

<210> 1325
 <211> 418
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 1325 | |
| aaacaaagag ggatttatatt tatttacaag aattctggag aaggatggcg gctgggtattg | 60 |
| gcttggtgaa ataattgatag ggtcaatgac tctgtgattc tcttggcctt tttgtcatgg | 120 |
| tagcaaagtg gctgctgtgg ctccaggcat cacaccctca atcaaggtag gaagaagagg | 180 |
| cccaggggagg tgtagccat gcctgtgtct ttatttgaa aagctttccc agaagcccag | 240 |
| gtagacttcc tcttcaattt cattggccac acctgatcac atagccatcc taagctgcaa | 300 |
| aggagactgg aacagtgaag atctggattt acagcctcca cagttggagt ggctggagat | 360 |
| acagagttgg gacgaccct gaaaagtga ccaaggtcgt ctgcacggct gccctgga | 418 |

<210> 1326
 <211> 328

<212> DNA
<213> Homo sapiens

<400> 1326
cacttgacaa ttttatgatt aaaaccaaca aatggaaaac agacagtgtt ggggtgttgct 60
gacataatca agcatttcgt gcggaccac tcaaccaccc catttcttgg atctatttct 120
ggatgtacca aatgtgtctg aagatgaact cactttcgca catcaaagat gtatccagtg 180
ttaaacaccg gagccagaac ccagggtgaaa atctgctggt tcagggcaac accacttccg 240
gctttattaa aactcaaaa gtcagggtcc caagaaacgc ttggatctat gcgcaagtat 300
aacatgtcaa aactgttaaa tgtgacca 328

<210> 1327
<211> 357
<212> DNA
<213> Homo sapiens

<400> 1327
aaccaccatt gtctacacct ttttaaaaat taagtttgtt actaaaagtc caatgtcatt 60
cacttgtatt tatgatcatc aaatggtaat tagggcaaca tatgtaaacg catgcctctg 120
aatcagattc atgcagtgtt aattatctga ataatttatg acattctccc aggttatttg 180
aatgggtatct ttggaggggt tactcaaagt aaccacacat acctccacta ttacagctta 240
taggaaatta caatccactt tacaggcctc aaagggttcat tctgtggccc aaagcccatg 300
gaggggaagg gatctaaagg tgctcatgtc aagttatttt acttgttttt tactgtc 357

<210> 1328
<211> 379
<212> DNA
<213> Homo sapiens

<400> 1328
gggaacgtga attttaatga gggggcagac cgaggaggtg gtggctgccc ggagatcagg 60
gccaggctgt gctagatggc gcctggaagg ggggtcacc aagtctccct gctgtcattt 120
caggaggccg acccaagtct ccctgctgtc atttcaggag gccgaatttt ttcccaatcc 180
cagagaaggt gtcagaggcc tggtagcag tcttgtcgat gggttcctgg gtggtccttg 240
ccagctggte catggcttct tgccccgcct ctgtggcctg gtccaccact tgctgagctg 300
ccgctccggc cgctgacacg gcttcctggg cgggtccctc cacctgttgc ttcaggtcct 360
gcaagcactt gcttgccat 379

<210> 1329
<211> 317
<212> DNA
<213> Homo sapiens

<400> 1329
tttttttttt tttttttttt ttttttttat cgtttgaga agttttattac caccctacc 60
ctccagtggg atctcaatgt cacgatgagt ccggggctgg ctttccgccg ggaccctcct 120
gtcctggcac atggcccacc ccagcacgaa gcctggccgg gagggctcag gtgggtggct 180
gctaggccag gcctccccag aacgactgcc ccatgtccag cctgtatctc ctgagtgcc 240
tgctgcactg gggagggaca gggctggctc ggggctccag gaaagatgcc tcacatgtgc 300
ctagaaatgt aggcgtc 317

<210> 1330
<211> 378
<212> DNA
<213> Homo sapiens

<400> 1330
tttttttttt ttttttttgg catactacat ttcactttat tattattaac atttatcata 60
catggttact attccaatct ttcattgcaga caaaaataaa caataataaa tacataatgc 120
actttgataa ttttaaccat acataaaata tggagtaatg gaagctatgt tacatggata 180

| | |
|--|-----|
| ttttacaaag gaaaaaaaga tgacttttat aataacacat ccagatgaaa tttatcatta | 240 |
| aattttggat ttcatatgat gttaagtatg gatatatcca aaacaattac tatttataga | 300 |
| accaatttga tattttgtca tttaaaataa tgaatactat gtaaatagagt acttataaaa | 360 |
| atatttttag gcaaaaag | 378 |

<210> 1331
 <211> 199
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 1331 | |
| caaaacaaga caatgtttta attgtaaaac taactcgagg catgggtggg cgggctgggg | 60 |
| ctgcgctgac cgggcaggaa cctggttctt caggcagtgg ttctgccagg gccacccgcg | 120 |
| aggacaggga ccactgttcc cccaataagg gcaggggcta gagggttata aaatgacaat | 180 |
| ataaatagac ttctagaaa | 199 |

<210> 1332
 <211> 395
 <212> DNA
 <213> Homo sapiens

| | |
|--|-----|
| <400> 1332 | |
| aaagatgagg atgcggactc caataaaggc attaagaaag tactagatga aaatgagaaa | 60 |
| tatgtgaagg ataacatgtg aaatgtacac tcaggtctaa caaataccta ttatttctct | 120 |
| ggttaagaag gttagcagg agcctccaat gagcactgta ttagagagaaa agggaaggag | 180 |
| caggaggagg aacagatctg cacagaattt ttttcttaaa aaccacaaaag ggtgactttt | 240 |
| ttcttctaag caagcaagcc tgagaggcat tacatgggct ggctccta atcaaaacaa | 300 |
| aatatttctt tgccacaaaag gaacttgact atgtagcaac acatttacia aactactgca | 360 |
| aaacactccc agagggcagt gacctactct gctcc | 395 |

<210> 1333
 <211> 529
 <212> DNA
 <213> Homo sapiens

| | |
|--|-----|
| <400> 1333 | |
| tttttttttg tcccccttaa aacaacaaaag gaaaaaacia ataaccagag atgacgatcg | 60 |
| aggctctaca cacgtgctgg gtttccgtag gacatgctgc tatggaaacg cgggtgcagca | 120 |
| gccccccaga ggcgacgcgg cgcgcatgcg aggtcgagcg atccaggcag ctactcgggc | 180 |
| tccatggcct cctccggccg cagtggatgc atgcgtgcgg gggagccggg ggcggggggc | 240 |
| cagcaacttt ccacgcaggg actgcctctc acaagagcac ttctcctcc ccacggggg | 300 |
| gcgggtcggt gccctggagg ttgtcttcgc tgccttgctt cgtgagcaag ttccaggcg | 360 |
| ctgacagtga gcgttctcc cgccggctgc cctcgaatgg gttcccaaag gagcgtttac | 420 |
| gtatcatggt cttcaccagg atcacggttg ccaagctggg aatgtgttg actgagttct | 480 |
| cgacctctc ttcagtcact tcgaccagcg tgcagttctc atcctccga | 529 |

<210> 1334
 <211> 428
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 1334 | |
| caatctgtag ctggagctga tacaatacaa tgtttacctg gccaaagagg gttcgagggg | 60 |
| acaagctggc ctcaataaa gatgcacagt gttagctagg tcatcgtgac aggcattgct | 120 |
| cacaccaaga cggactatca agacctgagc cgacctgact tacataaatg acaaacacta | 180 |
| gtgctttaca aagggtggctg gaggttctcca tcttctaaaa tcaacatcca atccccctca | 240 |
| gtcagcatct tcagtattcc cttgaggact ggaaaaccaa agcagctacg tccatctgta | 300 |
| acgcacccgc accggacagg cacgagatgt cacgtccacc tggcaccatc caaagagggt | 360 |

aaattggaga aatcacacct ttcaaagtgt aatctgacac tgtaaacagc agttgagttc 420
tcattttac 428

<210> 1335
<211> 461
<212> DNA
<213> Homo sapiens

<400> 1335
tttttagttt ttttttcagg tgaatatggt tttattcagc aacagctctc atcaacagct 60
tacactagct ctctcacact gtccacctgc cttggctgct tgagcccggt gttcccacac 120
acagctgtgc agcctgctct cccttgccct cagggtcagc agcttaactt tttctctctc 180
tgggctgtgc aacctgagct gtgtcctggc tccttctgtt ccatctgcaa aacggacagc 240
tttggctctc tctctctctt actgggagcc agtgtgcccc ccatgtcaag ccatgttgag 300
ctgagccgaa cccaagagc ccctgtacag cattagcagg acaattacct tttacagaca 360
acagtggctc agaccaagta tgaacttaca caaacaggtt atataacaag tggaggtgtg 420
tgcctgtgca ccaaaccac tgagtcatgc aggcattgat c 461

<210> 1336
<211> 252
<212> DNA
<213> Homo sapiens

<400> 1336
cacaggaata ataaatttat tataatcaca gatggtgggg tagtgcacat aaaaaggggg 60
gacctcttct caccagaggg tgctggccgg tgcccagagt ggcaggcaac atagggaggg 120
gctccctgca tggcccggcc cgctgccagg cccgctgtct ctgggtgtct agtgtgtggt 180
gctctgagga cacgggtcct gagggccttg ctcttcatcc ttcacagtgg ggacacggcc 240
ctcatgccag cg 252

<210> 1337
<211> 423
<212> DNA
<213> Homo sapiens

<400> 1337
tttttttttg tattgcaaaa tgtacagcat ttattcacat acagacaaaa aggcacaatt 60
ctactaaata gttcaacaaa aaaatacagc tgctctcaac tagttttata aatactttca 120
aaaaggggggt agaaataaat acaggattgg gtcattgta ataaaatagt catctctaca 180
tatactttga tttttaactc ttcattgcacc tttttttttt tcaatttttag ctgaatggac 240
accaagctag gcacatagtg aaaaatcctc tgtacaaggt tacaaatgta atgacaagtt 300
tgtccatttc aaaataagat ttgtacacaa cacataaaac cttcatttta gatcttgtgt 360
ttataaccta acaaatgaca ttccaggcaa ctttacaaaa gtttaactag cctacatttt 420
gac 423

<210> 1338
<211> 454
<212> DNA
<213> Homo sapiens

<400> 1338
tttttttttt tttttttttt tttttttttt ttgcagacac agacatcatg tgaggatttt 60
attttgcagc cattcagttc agctgtccag tatcagggtta ccaaagacaa attttcaagc 120
tcccggttaa tccccacaa agtttctact gttegggtac ttcaggatgg ctaacatttg 180
gagagaagag gatccccag gtagtctgta cataattcag agagaggaca tcagaatttt 240
ccatgggttct atttcaggta ttaaggtacc acagtgaagc atgtcatttg actgtggtgg 300
caaaggagc gactgagca tgcctaacct attccccggc atttcagtcc aatcagcgca 360
tgctcgcaat gatcatccat ggggtgaaaag gaagagctga aagacacatg tgctgagcaa 420

catttaattt ctgcttgta aacgggtgat tagg

454

<210> 1339
<211> 488
<212> DNA
<213> Homo sapiens

<400> 1339
ttaaaccgga gtccggttgg ttaattgaat gcaaattcat tcatagaaaa cggaaatgca 60
accatagcat ggagacgctc tgagaaaaga tccagaccca cttcatctcc cagcccttca 120
agcagactat taaaaaaaaag tttgggagaa aaacacattc ccatcccca agcagaggcc 180
ccgcttgagc tcccccatcc tcagcatctg ggggtggacca ggtgggacga aggggatcca 240
aggaccaggg tggccagggt gccagagct ggggcaattc tttgtaaact ccaaggtttc 300
ataggtatgt gtgtgcatga ctaacacaga acttgctga agactggacg gaaacttaga 360
agccagccct gggtcctaga gcgaggctag gactgggcac gtagaggga acagcacatc 420
ccttcctgaa gccctttct aaggtaggca ctggggtgcc acagctatgg aggcagaacg 480
ggctgaac 488

<210> 1340
<211> 383
<212> DNA
<213> Homo sapiens

<400> 1340
tttgaacata aaaattcttt atttaaccta atccagccag tattgagata gtttgctata 60
ttaaaaacaa gacgttttaa aaaattacag caaagttagc aaggcagtga ctaattaagt 120
cactaagttt aattttatat tcttcacagt catttcataa tcatgtaatg gtaaacaata 180
ttttcagcca ctttgagat aagttaactt ttgaaaagaa tagaattcta gtagtcgtca 240
ttgaatttta taaaagaggt ttaaaacatt aaagtttcca gaaataacac agtaaagaaa 300
tatgaaaata aactggaaaa taaaatatac ccacccatcc gaaaaatcta catcatctct 360
ttcatttgct cccaatgcct ttc 383

<210> 1341
<211> 310
<212> DNA
<213> Homo sapiens

<400> 1341
agaattaaat ctgacaggaa aacctaggrg tttttattag taccattatt gttttctttg 60
gtccatgta ttatgtcggg aaaatgacaa aaaaaaaaaa aggaaaaaaa tktaaaaaga 120
caaataat tttgtacaaaaat acaaagtttt aaaagctctt taagtataty ccatattaty 180
actaatagty ggccyatata tcttatgcct gcatatttyb cctacacttg gwttttagaa 240
atgtatggca ctktttacac agtatatgct tavgbbtctc ccataactca vsgcccaatg 300
atamcctttt 310

<210> 1342
<211> 297
<212> DNA
<213> Homo sapiens

<400> 1342
gattatgaag acttttatta aattacagtg tattacagat tatatcataa taataagcct 60
ttcatcttta ggctaatatg atacaaaaac ctacttggcc acattacttc ttgagtttct 120
tttgggcagc tttcttcttg accatctgta atcgcttcat agcattgagc tgtgattctt 180
gtgaagttgg gcctttaagg gatgctgagg gagagctgct ggattctgaa gtagttttgc 240
tggtagtact tccactaggt cctgatgttc cactatttcc attcccactt agttggc 297

<210> 1343
<211> 298
<212> DNA

<213> Homo sapiens

<400> 1343

99gggtggca gtgcacttta ttaacaaaca aaacagtacc atacaggcaa aatcttactt 60
cagtggcaaa gcacacacat aggtatactc caacgtgtag cactggggca aacttcagac 120
atggaacatt aggcaccaag ttcacaatca cactaaacat agttcacaat ccttcaatcc 180
atactcttca gtggaggatg aggccttatt taacagttaa ctgggacaga cagatgaagt 240
tttaaaatct aattcttggc ctaactgtgg agtggggctg actcagcctt cagaactg 298

<210> 1344

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> n=a,t,g or c

<400> 1344

gaatgaaaag ggcttttact ttctttttta aacaagtgat tttnaagggt ttgtagaaaa 60
agcaaagaaa agcataattc tcctcttact tcaagctagt gtctgatgag aaagtaccag 120
gctaacctct gaagaatcct accccaacac cttcttcttt cttctgctgg gatgaacatc 180
taggggtaag atatgactgc tctctaccat ctggggactt ctcttcttta tattgttgca 240
ttcctcaatc tttgcataag gaaga 265

<210> 1345

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> n=a,t,g or c

<400> 1345

gctcagtga gatttattgt tatagaaggc aactaataca atagatttgt gggctcgaaa 60
ttttaaaaag ttctaaaaag gcagttaaag cttgacaata aacttgagta aggtttacac 120
aatatcaaag tatattagtt ctttgaaatg aaaagggtatt tttttnctnc ctttaacatt 180
gagatgtctg agatgtcagg attttgtagc attccttagaa acaacatcca ctgtgtggga 240
tacttttttc cttctcggag ttttaaacca gtctgactct ttggttgtgc ctatacaatg 300
aaaag 305

<210> 1346

<211> 243

<212> DNA

<213> Homo sapiens

<400> 1346

ttttttttt actttaattt ttcttttatt ttcactgaca gaaaaatttt ctggagagta 60
caatcaagat agtgattat tagaaataac attaatagaa gcttggtcag aaatgataat 120
agtcataata agcatctctc tcaccaaggc attccacaca gagagatcac agcacaataa 180
ataaaggatt tctcatttgc cacacaacaa ataaaacaat tgcagtaaca aaaatatgac 240
ttt 243

<210> 1347

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> n=a,t,g or c

<400> 1347

09954456 091601

cacagttana aannatttta ttaatatctc acaatctaac ttgaaatatt tataaacact 60
gcataaatga atacaagggc actgtatgaa ttttagaaaag gggactcttt tatacaaata 120
aatttaggtt taattctgcc agataaaatt aatttttagat atgtccaaca cacaatcaaa 180
ngtattctga aaagttgtat ataggntcaa atcatagttt aanggccatt cacaaaataa 240
ctgtaaattc cccaatttta tcttttaaaa tatggaattt ttaatatatc attttcttan 300
gggtaaaggt acaccttta ttttnggggt ggtaaatngg ggntaatctt tccaaaatgc 360
cctttaaaaa attng 375

<210> 1348
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1348
agcaatacat gtttatcata gaaatttaag aacctaagta atacaaagaa agtaaggatt 60
acctttaatt aagaacctaa gtaatacaaa gaaagtaagg attaccttta atcaataaac 120
aaagataaac ttttggaggg agcatatacc attccagtca ctangtaagg ttttaatat 180
cagattccag aattctgatc aatcaatggc tatgtttcac acttctttaa attaaaaa 238

<210> 1349
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1349
ttttttttat ttaataacat tgtttaataa aaaactacat atttaacaga aaagttgtta 60
aagctccaag gtaaaggcac attgaaggag aatgcttttt aaatccaatt ttcagggaa 120
tcactttaca tgtaaataaa gcagaaaatg caggaaaatt attttgaagt ttttcatcac 180
ttaacaattt ctgggaaaca aagttcatcc tattttccca tagaggacc ctgttaaaat 240
ataagattat attcccctat actagggatt caggcattca aataaatcac tagtccaact 300
tcaatgtcgt aggaaccna gaanaatata actatcctaa aaatatataa tttaaaatat 360
taatttatag gttatac 377

<210> 1350
<211> 478
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1350
tttttttttt tgttttttcc atacctttta ttgaactctg cagacttcat taagggacca 60
tttgcttaga aattcttaaa catttggaca tattttacaa gacaagacag cagctggagg 120
tcacacaaag atcacaattt catctacca catgcataaa aagacactgg gatttgtgtg 180
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgcgtgtgtg ttgcgcacat gcaatgtctt 240
attttcacct ttacaggaag gactagagac attaactgac gagagatgaa taggaccac 300
gaatgcaccc ccgagaaaag agtggctgag gacattgggt catttatggg ctaatgtgat 360
tgggcttggc ccctgttcaa gggtgaggtg atcagaatgg ntttactggg cagaaaagcc 420
ccaacctcac acgacgggtt tcccggggag agacagggtc ttagctgatg gggatctg 478

<210> 1351
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1351
 taataacaatc gtagtacagn tatgaagtca cattcaatcc actgaatata ttcaaggtat 60
 taataaaaaat attatacatc tttattcact atcttaatat aattaaagta tttggttctt 120
 ataggtaaga ttaattacca tattcattca tatatgcact gctagtcaaa caacatggga 180
 aatgaatgta tgggattatg atagtggggg ttcagtcctt tttgatctga agtctaagtt 240
 tcaaaaagtga atgttttctt ttttaaattgt cacaatatatt ggaatcctag gaaaggaata 300
 gggccaacct aatttaaggg caagggtatt ggaaaccttt tataccaacc ttttaatttt 360
 ggaaaaa 367

<210> 1352
 <211> 475
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1352
 ttttttttca gttgagcaga catttattaa gcacctatca agtgcaaggc ntgttgctag 60
 gcgccgtggg aaatacagag aacacaggcg gtccctgccc acgaggagct cacagtctag 120
 aaagggcagc aagacagtag acaatcagtg gcagcagcac cagccagagt ggcaagtgtc 180
 caaagcaaga cacaaagtgc tgtgcggttc acaacatcat ggggatgctt ctggcagaag 240
 cactggaaag gagacgagga ctgaggctgg gccttccagg gagggaagcc atttgggaga 300
 agggcatctc tagcggagag aggtccatct gcagagccca caggtcatgg gaaacatgtg 360
 gnctgcaggg agagtttggg ggacanttca agtatggnet ggggaggtng acagccacgg 420
 acattaagtt caggagattt tganctttnt ggtctgggtc aaacagccac tncag 475

<210> 1353
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1353
 ccaagnaaan tnattgtatt ctccctaaca acaacaaaag agacctaaat gggctgctcc 60
 ctgaagagag ccctcagctc ttttaccgtg atgcacactc ggggctgggt ntaggctgtg 120
 tgatcaaatg tatgaaggaa gaaggaacgg agagaacgtg ggcaatcaag gcctgggcac 180
 tgccctacag gaggcttaca gggtcacact cccaggaact gtctctatcc ccatgcctct 240
 cctaggtaag gattcattac ctatgggttt caaaggaaag tgcagtttct aggggagtga 300
 ggggacacgg tggaaattcc aggaaattaa agggccagggn aaaccac 347

<210> 1354
 <211> 400
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1354
 agnntngagn ntcccgctn tttattacat cccttatgca tacagaattc aactgattt 60
 cagttaaaag tcaaagtggc atgcaagtag ggcaaggggtg gccctacat aaatatagac 120
 atagccattt gttgagaaat ttaagtgttc aaacataac caagaacact tatcaggtat 180
 tgaaaagcta gagggcagcc acttctggtt cttagttccc cttgtaactc cttataattt 240
 tcaaatgagg aagtatcagt gtattctccc aaaccactct aaattcatta ggtaacattt 300
 tctaccatcc ttctggcaaa cattttacat acatcatgag ggaacaaaag gaaagggttc 360
 atatataact acgggctccc ccaaaccaat tggctactca 400

<210> 1355
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1355
 tttttatggt ttttggtaat tttttattta gatataatgc cagttttata gaaaagttgc 60
 aggaatcgta caaaaaactc ccatacaact tttcaccaag attatataca ttcccctcat 120
 ttgttttggt tatatgctaa tacatcacia acacacaaaa tactttttga attctgattg 180
 aattataaac tttttgagta cagattgtta gcaattgag gtctgctgaa atgtttgatc 240
 aagactacat tccatttcat gcttttacat tttctttatt tctattattt ccccataata 300
 agagttcggg ttccagaaag aaaaatgtat ttacattttt tttccttggt aggtggtgga 360
 cttaacttca tatatttggt ggggggtggt aacnatactt tctccagggn cctg 414

<210> 1356
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1356
 gaaatcattt nntgntcttt aatcatagca aatgtgtttt tacggtagtc ataaaatcaa 60
 cattaccaca tatacaaagg acaagacacc agtttggcat acaaaaatac catatattaa 120
 aattgggttc attggaaaac tcaggactgg ctaagacacc atctataaca gagagagcaa 180
 gcaagantgc ttttaaggac attcagattt ataaacaggc agcttgatat cccctttacg 240
 aggtcaatat ttgggcaaca tttggggcca atatttttct acacagcccg gcaggctcat 300
 ttatctgtag ggggctattt gggncctta aaa 333

<210> 1357
 <211> 372
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1357
 ttttagaaaa tttattatga attccgagaa gtctgctcat catatacctc cccagcccc 60
 aaataaaaca aacaacatgt ttgtacataa agcctgggtt tacttggnac aaaatttgag 120
 tctttgaaaa aaatagttta tggnaaatct caataaaaat tcattttgaa agtaaccngt 180
 actgttcagg aaataagggg ngcatgtta cttgaggang tcaaacagtt ttattacagg 240
 aactatgtgt atatattttg gggnttaaaa cttgccnata ggctgttttg aaagggntag 300

gctcataatt tattccnaat agggtatfff nttaatcnaa tgtttttggg gttatcnacc 360
ataaccccnt gg 372

<210> 1358
<211> 279
<212> DNA
<213> Homo sapiens

<400> 1358
tttttaaaaa attgttttacc ctgtacatgt ttctattgaa tcctaagtac gaatgcccaa 60
ggagataaag caagtgcagt taagtatgca tgggaaagct aaaatgggta tgtacataag 120
atcggcaaag gaaaccaagt tctgtaaaat gagttctccc tcccctccag ggtagctgat 180
tatgaggaaa ataagaaaga gctttgcttt tctccttagt agtaatggtc tacaataagc 240
tgcacacaca catccctcat cacacctctc tgctcaaaa 279

<210> 1359
<211> 459
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1359
acaattgttt tattcaaagg aaattaaata caaatgtata tttttcatta aaaatgggga 60
tttaaaaaata gttttataat tagtgttatg ttgctttatc ttatctttgc ataaattatg 120
tattattaaa ggtttctgat atccatatac attctagtct tttttaggca gctatgagaa 180
gatttcatat tcaaaagcca atgccacttt tctaaagaaa cgatctttgt gccaaattag 240
tacgacaatt gtccaaate tctgggtctg acttccgggt gtgtgaagag cagtgttttg 300
tttttttcag agaagggaaa gagccttcat tctttagggt tgtttttgcc tcaaagacat 360
ttctatatgg gtatctaaag ttttagttta taagtctcat aatgatttga cccatgcagt 420
ccaactttta gatagtattt ccataccccc caaaagcnt 459

<210> 1360
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1360
tttttttcac caaggaagaa atacctttat taggagtcta ggcattgtcag aaaaaccag 60
ttcagtcaca gaaaaggagg caaatattgg tacagagcaa gaatccaagt gtgaaaataa 120
aacctccatc taaatatcct aacagaaatg ctgctgaatt tagcccaggt gaaacttctg 180
aaagcncctg gtgaaatgag atttttgcac aaagagagag ctctccagca ctgctgcac 240
tgagcttctt ataaagtgac aggtcttggc cagcagtaga ggaagagata aaggggatgt 300
ctcatcaccc aagcaaggtc gtctgtgttc aagttagaga agaaccttag ggttttggac 360
agagtaaact ggggcagcag agggaaaatg gctnaggaaa cnccacgtct agg 413

<210> 1361
<211> 262
<212> DNA
<213> Homo sapiens

<400> 1361
ttttaagcaa tgaaatattt tatttgctga aataggtata acacttaaata aaaaattaaa 60
caaatgttta atatctcctt ccatgaaaca gcagcagcaa gagatagcaa gtgttcggaa 120
gtctcttcaa tccatgttat tctgatgact ctttgaagaa agaacttgaa cctcctgcac 180

agggggattt ccttcactca tagattcccc taacttcac tctctttttc cttgggctat 240
tagtcagtc atatgcttgt ga 262

<210> 1362
<211> 445
<212> DNA
<213> Homo sapiens

<400> 1362
aaattttctt gatttttaaaa aatgtatttg tgttttgcag gttggaacgc aaacccagtc 60
tggccacgtc ccgtgaagtt gtggacaaaa tgtttcagtt tctgttcacc tctgtgcgtg 120
tgtgtgtatg tgttgtgtgc atgtgtgtgt gtgtgtgggg gtgggggatg gggtaggtat 180
gtgcttttgg ctcatgtttg tgatgataac tgaagtcttt tgtgggtccg acctgttgta 240
gggtgtgggg gaaagtgaag gaagagaatg aaggtgagtc cccgccgttg caaaccttca 300
ccaaaccacg cggcccagtt ttcgtgagta cccctgtgtc ccagagagga ggacccagcg 360
tctcggctc tgcgcaaggc tttcttggtc tgggtgggtac tcgaggcagt tgagaacctt 420
gctgagctga gcgggcacct cgcct 445

<210> 1363
<211> 473
<212> DNA
<213> Homo sapiens

<400> 1363
gaaggtattt ttaaaatctg ggcacaccat atctatctgt aggaccctgg gtcaaagggtc 60
ctacataact gatatgaacc ataattctcc atattaacaa aggctcggaa attgaaacca 120
agatcaccta actcgctcac tttggccaat atagtacgaa tttcagcttc tttacaagag 180
aagagtccct agatgttaat atgcagcaat tctgctgatg tgcattttta ctttatgcac 240
caaggaagaa aggctaagga attcacaaaa gtaaaatcac cccctgaaaa acagatgctg 300
gtgattggag aaaaaagagc agtagaatta aggtgtttta taaaccagag agtgttttgt 360
ttctgatagg taaagggatt tcttcatatg ttatttttaaat aaaagggaat ttcataggta 420
aaaaccaata ttcaaaatta taaaacaaat agaactgttt gtgcacaatc act 473

<210> 1364
<211> 378
<212> DNA
<213> Homo sapiens

<400> 1364
atctgtaata gttttatttta aagactttac atttacaagt agaaacaaca tgtgttatct 60
gtgggtaagg tagagcagga actctaattc aagggtgggg gagatcagtt ggttccttca 120
cagaaaataa gcctgttgtg tgggcatctt gcttgccctgt agatctttgt tcccagttca 180
ggaggttttt attcagtgtc tgcttcattt actggaaaag ttcactgggc ccacctgtca 240
actccttccc ccacagcttc cagctcagca gcaaactgta gggaacagat ttactcccca 300
gttcctactg taaataatgc tttaagaaca gcattccttt tggacagtat gtcatagacc 360
caatttttaa tactccca 378

<210> 1365
<211> 387
<212> DNA
<213> Homo sapiens

<400> 1365
aatatagaac agtcagggtt tattactttt aagtaataaa gagccttttc cttgcttttc 60
ttttttccct ttttttcttt tcttttttct tttcttacia catacattaa gtcgtgaatc 120
agatgttagg ggatgtggag atggaaggaa aattcgggtga catcacaata tttttacaac 180
tttacaacaa atataaatct gagtttgttg catctaccag tgtctagcaa ggggtggaaag 240
caaaggcaca ctcggttcta tggaccctcc cccacacac agtgggggaa aaaaactggg 300

gagaaatact taaatgcaga agaccagctc aatacatgtg ggtatttttag ggttaacacc 360
agaagtgatg ggttgtgggg gtgtagg 387

<210> 1366
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1366
catgggtacaa aaatgtttat tttaaattaaa tatttgcaac aaattaatat tgacaactgt 60
tccaaagtat gagttgttct ttcaaaaaaa cgaaacagtt tagcttaatg tctgtgatac 120
tgttttatga gattattcat acatgctctg gactgcgcac cagtcaatca tatcatcaac 180
aatttactat ttattaccaa atggcatata aagtaatagc ataaagagta atcatacctt 240
ataagtgatt ttacaatagg acatcttaga aggacaaaaa ggatttatca acaatacaaa 300
acataagata aaaataatag gagattatat aanacatatt tcatacagga aataatatgg 360
ctaaaatcca aaaaaccaac caactggtct ttcagc 396

<210> 1367
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1367
nttatttttaa ataaatattt taattctatt gttgacattt acaagtagaa agcatacagt 60
atgttacaaa tatcaaaatg agaaaaatat gaatgttaca taagtaacaa atataaaaaa 120
agtattttct taccttcctt gaaagtaaga aaactattca gcataggaaa atatcagtat 180
caaaaacaca gcttaggtgt aaaaaaagtt ttacacagtt atttaaaaaa aatgatctac 240
aaaatgacaa agtaagtgtt gaaatctgat ttcataataa ttataaaaaa tgggtactta 300
gagtaaagtgt tatctggttg gaaaataagt ccaatcataa gctttcctta ggtcaattct 360
ttaaaatatt aaaagcatac cgaaaaattt tccaataaat aaccttnaag aggggttcc 419

<210> 1368
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1368
attggaatat tttatttaca ttttatattt aaagagaatc aatacaaatt gggacatatt 60
tacagcattt caaatcagtg tacaagaatg caatggtttc atccattcag caaacaaaaa 120
tacatgtctg ttttattttt gcctaaattc tgctataatt tgaacaaaat tctaaaacaa 180
aagccacaca gagtacaaat aaagtgcatt tttaaatagc tctatttaac tttgngnggat 240
gaaacttcaa actntatatt aaggggcc 268

<210> 1369
<211> 320
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

0944560-0944560

<400> 1369
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 gggtggctct gggaagtaac agtcaccaga gtctggaagt tcttcgcttg aactttgagt 120
 agccactggg actattggaa gccagatggc canggtattg gnaaatgggc aaggggaaat 180
 cccaagctgg gctcaagagc cgtgggttag ggaagaagaa ggtcaagtgg actggtaaaa 240
 attctacttc aactgccctt attcatagat acaactttcc taacagtctc actctccacc 300
 agtcccatat ccacaacca 320

<210> 1370
 <211> 454
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1370
 cagttgcagt tgaactttat tcatccgttc acacctgggt cctccccggc cccacacctac 60
 cctggccctg cctactcagg gcttccaaga ttgggtgtcg ggggtggcttt gcttaccctc 120
 cagatgcctt cttcccagga tgtgatccgt gccctccagg atctaaggga tgaggactaa 180
 aggggtctgt tctcctcca ggcagctggc atggaaccgt ccgtctcagc ggctgcttgg 240
 tggttgccgt tttgaatggn tgtggctctc tgtttgctgg ggggtattct gccaggatgt 300
 ataggaagcc acccagggtt gccactgctg tgntngtgtt gtgggaggag cagccatctg 360
 gaaattgttt ttctcgctc ttcactctcc tcgaaaaatg ctgctgatat tgaatagctt 420
 tagataattc ttcatttca gcatcagggt cccc 454

<210> 1371
 <211> 527
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1371
 cctctgccac aaaagacctt taatggcctc ctatttattg ttcttttgtt catttggttag 60
 agttgaatga actataataa cttgtctgac ataataagaa tgccacagggt ataacagata 120
 aacctggcag gtggtccagg aatgagagtg tcacaaaata atcactcaac acaagggcca 180
 cagacctgga gattcttccc agccatccct cactcctgcc ccaggacaca acccatgcag 240
 gccccattc cataggaaga ggcagggtccc acagtgtctg tggctagacc ttaacactga 300
 gcagagatgc ccgggaagat ggcacttctt atgctcgttc ccaagtgtc tgctcatctg 360
 ccatgcagggt caggaccata ccccaggttt gtgaggcacc cacctctcat actcaccacc 420
 tcatatgacc acctatcata cccanctctc ctatgaccct tgcaattgtc ccagtgaagt 480
 gggaagagct ggactagccc attttgcaca cagggaacta aggacac 527

<210> 1372
 <211> 529
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1372
 ttttttgact agaaagggag cactttaatg aacagaagta cagacgtgct ggcaaggatg 60
 gaaatctcca ctggttctg gcccccttca cctccatgca tccccagcat ggggtgtaat 120

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cattacccaa | gctctcgctg | ttccccctca | ccccctgcag | agtccagcag | gtctagatac | 180 |
| gtgctctttg | aatgtgttc | tgggattaaa | aatggtgcc | tgaggctgtc | taaccctcac | 240 |
| aaaagacaga | cacatgcaca | cacgggcctt | ggggagggt | gtgtattagc | agtcagggtg | 300 |
| gccctcctgg | gagagcttgc | tcaagaacte | ttctcggaag | gaaaccacc | ttaaggtagg | 360 |
| gttctgatag | gcagantccc | agagggacag | ccagctgcta | gaagatgggg | ttatccagg | 420 |
| tttgtaaggt | ttaaacaacg | ggcagggagn | caaacgagtc | aatgggttc | ctcgtgcgaa | 480 |
| ttttggctcg | aggcaaattc | ctatagttag | ngtattaaat | cgtaacatg | | 529 |

<210> 1373
 <211> 215
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | | |
|-------|------|------------|------------|------------|------------|------------|------------|-----|
| <400> | 1373 | ttttcagaaa | ttgaaccggt | tattagccta | ggtctgggtt | tcaggcattg | cggagnacgt | 60 |
| | | ctggggagct | ctatgagggg | aaacaagccc | ctgactggct | ccttgcccc | caaagaccg | 120 |
| | | ctccccag | ctttgcattc | acaagaaatt | actctgaggc | atgaggtttc | cttccccaa | 180 |
| | | gtgagctgca | ccccagctct | ccagtgggag | gatgg | | | 215 |

<210> 1374
 <211> 440
 <212> DNA
 <213> Homo sapiens

| | | | | | | | | |
|-------|------|------------|------------|------------|------------|------------|------------|-----|
| <400> | 1374 | tttttttttt | tactttcatg | caaaatcttt | atttggaac | atgtatgtta | ctgagcaggc | 60 |
| | | cagccgcat | cctgaaatag | caaggatatt | tacactgtgc | agagaaatac | aagagcttct | 120 |
| | | tgaagacatt | catctgtgct | ttgccggcat | tttatctgct | actttgtcct | gcttctctct | 180 |
| | | tccctgtgct | cattattctt | catgcacct | cacctctcat | caccttaagg | catcctgtac | 240 |
| | | cagcctgac | tgggggcat | gactgcagcc | ggcaatcggc | aattaccaat | ggtgtctttc | 300 |
| | | tgggaccctt | tctacctgtc | ttaggtatta | atggtgccca | aagaaaaaat | gaagagatga | 360 |
| | | aagtttctgt | ggtagctgg | gcatgggtgg | tgtgcacctg | tagtcccagc | tactaaggag | 420 |
| | | gttgaggtgg | ggatagtgtc | | | | | 440 |

<210> 1375
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | | |
|-------|------|-------------|------------|------------|------------|------------|------------|-----|
| <400> | 1375 | tttnnttnat | aggatcttcc | tatgtttctt | aggctggtct | cgaactcctg | ggctctagt | 60 |
| | | atcctcccat | ctcagcctcc | caaaatgctg | ggaatacaag | catgagccac | agcacctggc | 120 |
| | | cagtaaatatt | ctttttaata | ttaatatctt | ttggctcatt | aatcctacta | gaaatctatc | 180 |
| | | ctgaggtaac | aatcagaaat | gcaaacaaat | ttggttcaaa | gatatttact | tcagcaatat | 240 |
| | | ttatgatggg | caaaccagg | aaatactaca | tatgtccaat | aatagagggg | ccagttaaat | 300 |
| | | aaataatata | cccgttaa | aggaccattt | atacaactgt | ttaaaaaatg | gngtgttcca | 360 |
| | | aatttttaaag | gggggttan | | | | | 378 |

<210> 1376
 <211> 460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1376
 tnnnnntnttc agacaggggtc tccctttgtc acccagtctg gaatgcagcc tggcaacaga 60
 gcaagactct gtctcaaaaa aaataaaaaa ggagcaagga gatgactaac aggtactgga 120
 agccatgcta caaaaccaag aaaggagagg cagcttttct tccctcagc acagaagagg 180
 ggaaatgcag ttgcatgggg gctaggggag cggggaatga aancgggtag gaagggaaaa 240
 ctccccgaa ttttatagca tcccactttc acagcagctt aaacttttta aacattactt 300
 cacctcgagg atggggtaaa ccncttttct cttgaatggg gttgccctgc catttctccc 360
 ttttgggccc ccacccccac acaaggncca tctttgatcc acttctnag ggggggnaat 420
 caggttcttc caagggggat ttaaaatcca ccattacccc 460

<210> 1377
 <211> 418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1377
 agacaagcca agaaatatgt ttctttatct tcattcccat atagcagaga tgggaaccagg 60
 acagtgatgc tggaaaagcc tgctcgcac aagtcacac ataagttaat gtcagaaaac 120
 ctgtatttga atttgactcc tctatcctta ctctggaaaa ttggacatct tgaccagtg 180
 gctgtgaggg cttaaattaga tgatgcagaa agtgcttggc atgcagtaga tatgcaaac 240
 aataacttat gacactctcc aagcagggga aaaaagtctt catgccttct aactaataat 300
 acaaacgtat gcagtgtctt tccaccctgg ggctttgagt ttttaaccaa taccaaattg 360
 gaatagggna aaattaggtc caaactccca ttnaaccagg ttttattacc anttccaa 418

<210> 1378
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 1378
 tggaaagagc tgggggagct taagcagcga gtgtggccct ctgcttccgg gcacgcccac 60
 agcaactcgg cttcagagtc tgaccgcag aagttcttta aagagagggga cttagggacc 120
 ccagatcccg gcagccaggc ccagagaggg aagcaggatt agtcaaaaac aggtgga 177

<210> 1379
 <211> 320
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1379
 tgatttnaac aaatatttat tgaataccta ctatgtctga ggcactgtgt acaatgaaga 60
 ataatacaaa cacattgtac tccctagag ctacagggtta gctctgggca cagtaataca 120
 ttattacata aaataatgag actgattttc ttgggtggct tatgaaacct aatccccattt 180
 tatgtgagca tttggatttt gttcagtgtc cttgacatct tcataaacca cctgatcatg 240
 cattatatag agacattgtt tatccttttt tcacgtgggg cccatcgagg caaaaacttg 300
 actaggaact aggttggggg 320

<210> 1380

<211> 291
<212> DNA
<213> Homo sapiens

<400> 1380
taattacttt attgagcatc tgcaagggtgc acatcattgt acatagcttg aaaatgtcaa 60
attgagtttt gtcacaccct ctgtaaaggc ttcctaatt tccatgggtt cgtgggtttt 120
cttcctctgt tccaaggaac atgttattag tacctttact gcagcactta cttgtccttc 180
atgtgttacg attgtaccat gtgttctctc cactagggtt tgaactcctc aaagatgaaa 240
tccatgcatt gttcatctct gcaaccttga tgtccaaata cgggtgttttg a 291

<210> 1381
<211> 195
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1381
atatcaagtg tnttttattt tcacaaatat tttaaaatgc agctaccttt gagccacaaa 60
aggaaaaagc agtattcctt ttatgtattt gatacaata ttaaacataa ctcagtttta 120
gttcattagc tcagctcagt gaaaatagct caggaaaaaa aagtcatagg taatgctatt 180
ggtatatgca ggaaa 195

<210> 1382
<211> 384
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1382
tttttttttt ttttagctca agaacaagtt tttattatgc attgggtttc gcagtgatac 60
aagacacctg ctcacaactt acagtattaa ttttttagaa aaacaaaaca ggtatatggc 120
atgagtgaag cagttcccca ttaaaagcac ttaaaaccta tgacatggct agtaagatgt 180
aaaatattaa gtccccttgg gtcttgcaaa cttgtatttc ctaacaattt ggaagccatg 240
atgatagtct gaagctaaag gaactccaat ttcttggnat gatactaaat aaagattcct 300
atcttttggg gagaaagagc caaaacagaa gggtntgaaa gcagtgaatt tcccctcctt 360
atggccaata aagcaagagg ggca 384

<210> 1383
<211> 301
<212> DNA
<213> Homo sapiens

<400> 1383
tttttttttt tttttgaaca cttacatcca tttatttggg aaattgcttc acctgtaaac 60
tcacaactga taaggcacat tattgcaaaa ctgtcggggg ggagggaggg aggcaactct 120
aaggatcctg aaaaggggga aagggcacac acttgcgatg atgtggaaaa catgtttctc 180
cttccctccc cctactccag aacaccaaag ggccacagtc ttcaaagtct gctgcctcct 240
tccccactc tcgttatcaa ggcttctttt aaaggaaaca cgttttaaac aatgaaatcc 300
t 301

<210> 1384
<211> 293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> n=a,t,g or c

<400> 1384
 ttttttttgt tttacaccaa ccgcttttta ttatcgagtt tcagaaacct ttcacaagat 60
 ggtaaaaaaa aaaaaaagaa aaaagaaaaa aaaaacaaaa caaaaaacia aaaaacttta 120
 caaccacagc taatgtaatt ttttccattg ttcccagtcg gtcctaaacc cattgtgtgc 180
 aaagcccatt tttttccatg gcatctaaat gatnggatac agggctatgg aaattcttta 240
 ttctatttgt nggcaggctt atgcagggtg caggccaaac acaaggcttc ggg 293

<210> 1385
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1385
 ttttttttac atcaaaaacc atactttatt ttatgtatag caatacaatt tacatattaa 60
 ataacactat aatagaatga tttgatatag tttaaacaga agaaaaaggg aaaaatttca 120
 gggtacaaaa cccctcccc tgaacaaatt taaaaaaaaa aaaaaagcac actttttcca 180
 aatgggtcaa tgtgacgaat gttttcagtg actaattatg tctaattcct attgcacaaa 240
 tgggncaatg ggaattaaaa aggaaaaccc aactttcaca atcactggcc t 291

<210> 1386
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 1386
 atctcagaca aacattatgt atctttatth aaatttgcaa atgaaaacia cacatatttc 60
 atgttagttt taataagaga ttccctatcc tctgccccag taaaacctaa ccaagccagc 120
 ctgacagggtt atatcaatac agggagctgg agtgggagcc aagggtggtg ttagataggg 180
 gtgggggtaca gatcaagggg gcctgggaga ctgagtgact ggaagtctct gccctcact 240
 cttgggtgag tagctaattt cagcagctgg cttcataagg aggagtcagg ggtgggtgga 300
 ggctcctccc aattccagat ccacttctct ttctccttct 340

<210> 1387
 <211> 434
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1387
 gctgtatcat aannttttta ttagaaggca atgtaaaaga gtattgacct acacagtttag 60
 gccagaggta ctagccaatc tccatcctcc aagaaaaatg atctccagtg gctcagagcc 120
 cctcagtcct tgtccagagg ccgttcgcct gactgggact ggactgaggt gggcggggggt 180
 tccaggaggg cataagattc ctgacgggac aaatatgtgt cccagggtta aacagaactg 240
 gctggaatgt ttttcttacc tcccatttct acttcattat gaaaatggtg gactgggcag 300
 cagtgaatgg gtcgatcttg tgtgtcaggt tatgtaatta cataaacgac tgtattagct 360
 ttctgggggt atagtaacaa gtcagcctga actcagcatg aactaagcag ctttaaaaca 420
 acagacttta ttct 434

<210> 1388
 <211> 262
 <212> DNA
 <213> Homo sapiens

<211> 199
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1392
 gaaaagctag tagtttatat agatagatat atagatatat agatattgat agatattgtg 60
 ttacatagtg ccacaagtta aatgcaggta tccataagan gagcattaac aataaaaata 120
 caatctgtgt gtngccaagt acagagactt aaaatggtaa ancagcaaaa aggntctcac 180
 aaaagtacaa atatacagt 199

<210> 1393
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1393
 gtgggtgaaa atgacagatt tattcaactt aaatggtcac cgaggctaca gcagaaccaa 60
 tgctgttaca ataggcaagc actactgtca gcagcaacat accattttatt tcttcaacag 120
 catctgagcc tcatgggtta tgttttcatt aaaaaaaaaa aaatcttata agccagttgg 180
 gaagctgtta aaggccaatt ttaaattggca atgtaaaaca aatttcactg aaaatacaat 240
 tcaaatacaa ctgctatgng cactgtaaga aaaactgact agttactcag atata 295

<210> 1394
 <211> 319
 <212> DNA
 <213> Homo sapiens

<400> 1394
 tttcacagat acatatatat actttttaata ggaaattagt gctcaatact ctgccctttg 60
 tgtgggggaa aacattcttt tatacaagga tttttaccta gctattacaa tagtttaagg 120
 taatgtacaa tatatatttg acacagagag tggtattaga tgttcgact gcataaaatg 180
 aatcctctag cctttgatgt cttaaaaaga agttttacaa ctattagtga agctaaggca 240
 ctacatattt tccttcaca atatggattt gtgtcattta aactgaagaa gttggatcct 300
 tgtggtgatg acagggtat 319

<210> 1395
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 1395
 tgaaaaagtt tcattgttta aagtccacat atttgacacc ttgataagga aaatgtaaat 60
 gtgtcatata acattttatt catcaattta aactgaagtg tctcatggag ctaaactact 120
 aaagatttta aataaaaaag cagtaacctg tatgtacaca aaatgatcat tccataaata 180
 ttacatgac aagggaataa atggagaatc actaaaactg gaaattgcta cagggtgtgat 240
 aatcctttct catgacact 259

<210> 1396
 <211> 339
 <212> DNA
 <213> Homo sapiens

<400> 1396
 tctggcttca aaactgggcc tctctggtag aactgatcac tctagttatt tggctatatt 60
 aatcttcctt cacaatgctt aaagattcct gggggcagga aactgtcaca cattcatcct 120
 tgtcttctca gtagtgatgt gcgtaagttt gactttgaca tatttgcccc aaatctgcta 180

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgactttgat | ttctggcaca | ggaaaagctg | actgcccttt | caacattctt | tttggaatc | 240 |
| cctgatttgt | gctttattag | tgctccta | ataataac | cagcatatca | atgttagtac | 300 |
| tattaaataa | acataatatt | tgaatttact | acaattatc | | | 339 |

<210> 1397
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1397 | | | | | | |
| ccagtancn | nacataagg | aaattaatca | gttaatttct | gctgacttag | gtttcctaaa | 60 |
| cagcttttag | ttctcaagg | acagctgtg | taaaaacaga | gcaaaacacc | cagccattta | 120 |
| ttggaattct | gcagtacaaa | ataagcacat | gtctctatat | aatctagtaa | caggatagca | 180 |
| acagttaaac | tgtctcaaac | aacagatgta | tttgcttgat | tttccttcct | aacttctttt | 240 |
| gcacaggac | cgcaagcaa | gagcttggtt | cccagagtat | tttggggcaa | atcgggaaat | 300 |
| acataatgtg | ggcccattgc | cacaaaagg | aggactggaa | atcaatacgg | aggcaaggcc | 360 |
| caaaaggctt | cagggatttg | ggagccgggg | ggtggcccat | ggatggaaat | gccgggaggn | 420 |
| tccagggagg | ntagg | | | | | 435 |

<210> 1398
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1398 | | | | | | |
| tttttattgg | atttaaata | tttattttaa | gaaatattct | taaggctgca | gtttattgat | 60 |
| aagaaaaata | taaagcatac | atgtttatag | attatgtatt | gacattatag | tatatagatt | 120 |
| ctccaaataa | cataattaat | tttgtagtgc | tactagtgg | atgcattctg | cagaaacatg | 180 |
| gctttacctt | caaatactag | cacaataccc | ttacatcaaa | aatgaaggat | aataaaagca | 240 |
| caactttgac | tcattttaat | tttgggagg | cacatctgga | tttggtggag | ggggtaaatt | 300 |
| cggttttatt | ccctcttcag | gggaggncat | tattttttgc | catctctttc | nggggcccc | 360 |
| ttttatccct | nttaa | | | | | 375 |

<210> 1399
 <211> 523
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1399 | | | | | | |
| ttggtnntgg | ggnacttta | atacatcttt | attgtctgaa | ttttttacat | aagaatatat | 60 |
| cattttataa | attaaaata | aatttcaaac | taagtggtaa | gagtttttaa | atctctaaac | 120 |
| tgtatagatg | atagagagag | aaagatctag | attggtccat | agttatttct | aagatacatt | 180 |
| tactgaaagt | tgacactata | ggatttggct | gacatgacaa | gaagaacatg | aagaaaatta | 240 |
| tccttttagg | attaaaagaa | aaaagcaact | aatttcgaat | catctagggt | aaaatgaatt | 300 |
| aatatacctt | gaatgggaag | tccacaccaa | tttcaaattg | gcctgggtac | ttcatctgcc | 360 |
| ctctcttctt | tgctaattgg | ccaatttgct | aagggatgaa | ccaggacacn | ggatgccttt | 420 |
| tatcagccgg | gaatttcacc | tacccttttc | gggactgcct | caaataagg | tttccaccna | 480 |

tttaggcctg ccctcaagga gncctgagcc ngggaggtct nag

523

<210> 1400
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1400
cttcaacaca gcagaaattht atttcccacc caggtaagggt gaccctgagg taggcagtga 60
cttctgtcgg cagcgaacta ggccctctca ccaggctgcc ctaccgtgct cagtgtctgcc 120
tcatggtgca aagtgggtgc tgagctccag tcatcacttt agccngcnga anggggaagg 180
gnangggnaa aanntttccc cccnctnngg gggatttctt tncnncccc cagtnaggat 240
tttgngttta ttataaggna agaagagaca gtagcngag gcttcctgt ccaccagg 298

<210> 1401
<211> 495
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1401
gtggagatgg agtatgtatt tatthttacaa aaataaatca ccatcttcgg accatttgta 60
gactggaaca tttcgagcaa tgagtgcgcc acacggacga gtgccctggg gactccctga 120
tgttcgcgtc acccccagggt ccaccttggt gcccgcatga gcctcgnthc cactcccggt 180
cctccaactc ctttccctcg cagccgccat tcaccttctg ctgtttattt gtctgcagan 240
gcctgggaca ccggaaaagg cgattccctg agcgctgggt agttggagac aattcctggg 300
tcagaattta aacatctthc taggtaaagg ntgtcccaa actcttcgcc gcgtgggact 360
tttgcaccag gggcggttggt ggagganttg gccctccacg gttcctgggt aaccgcggcc 420
tttttgaaag aggttctgggt caatatttaa cttcggagga atttggaatt ggattcctth 480
aagttctthc cctgc 495

<210> 1402
<211> 477
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1402
tatattttct gactgaatct caaaattagt tggggcattg ggaaagaatt taatttgact 60
tttgagtgt aaccaaggat gtatttctth gaaaagataa aacaagagggt ctaatcatcc 120
taaakatgaa tgtctgcaca gattgaaatt cccaagatgc ccaggagccc agcctthtga 180
cagcctccag caccgacatt atgtgtgtth tcaaccactt ccccttata caaagggata 240
tgthttgcaga gthttctaat ggggtgacca agcagggaac caatccacgt cthttgatcag 300
agactccaga ggggttgtag ttgaccaggt gtgtatttht tgggagaaca tgthtgccag 360
agcctgtthc tcataggatg taccattgggt agattgtthc gagganggga tgthtctgatg 420
ggncatctt cagggtaaaag caggctctth gggagagcac ccggggntgc aatntag 477

<210> 1403
<211> 308
<212> DNA
<213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1403
 ctgtcacttc tactgtcaag atgggttgaga gttgacagtt tgtctagaag aaggctgata 60
 tatgtcaaca tggtcagcaa aggattttaa tatgggtctt tgaataataa atagctaata 120
 attgagttta ttaaaatgaa tttttgtata atttaggcag ttgaaggctc agaacagcct 180
 gcgttccttt ctatggcagc ttgctatgaa attcatgttt caaacaaaac aatacttttt 240
 catgcatagg ataaattata aatgtactga ccnggcccat tctatatggt taattctnac 300
 gganttta 308

<210> 1404
 <211> 238
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1404
 actttatttc aaaaaatata aagcacatat gacaaaacat taacacatgt tatttctggg 60
 cggatggtac ttatatTTta tacttttctg tatttaaatt tttcaaaata aaataatgat 120
 cctatatact tttaatacaa aatcacatat gtagggcatc actttatacg caggggaatct 180
 ttacaaaatg aactatgtgc tatcacaaca aactccttag gnacaatagt ttntaaca 238

<210> 1405
 <211> 397
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1405
 tctttattgg aaggaaatgt gttaaagaca gactcactac agtggttgaga cagtagtgag 60
 tagcacagta aggagactgc ccaggacttg aggtccttgg tccctctata gaagtatcaa 120
 gtggttgtaa aaggtttagc acccatgtga cagaaagaag ccatcatcct cttaatttct 180
 cttgggtttt acttaatata tagaagggca aactagtggg gcctctgagt gcaagatgag 240
 ggacttcatt aggaataaag ncatattgcc tctggggntt ttctaacca taggctccaa 300
 ggagccctca ggtgtcagga acataggggt aagggggact tggatttact gaggaggacc 360
 ccctaccctt accaacaatcc tgtggggaca ataggag 397

<210> 1406
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 1406
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 ctcataataa acctcctgtc tacattgtgt tccaatgaaa acttttagtca tattttacat 120
 ttattattaa tataacatgc tatgtaaatg tacaggagcc tgacaaatga caatctactt 180
 acataattta aataacacaa gtgcttgctg cagtctttat tagtacacag ctttggtatg 240
 gcttcttaga aataatttta aaaagtgcac gattcttgtg ggctactctg tttaggaaag 300
 attacagata acacatttct aagaatgaat tagtcagctg tatatgggtt cagattagaa 360
 aatattaaat aaatacaggg aaaaatattt ttaattagct taatttatat atgaaaatat 420
 tttatttaat ttgtttttga gacag 445

<210> 1407
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 1407
 cagtagaaac tgtacttcaa atattgaatt tttattcaaa attctttata actttattac 60
 aatatagatt ttgtgttgga tagttttgcc cactgtaggc taatgtaagt gttctgagca 120
 tgtttaaggc aggctaggct aagctatgat gtttggtagg ttaggtatat taaatacatt 180
 tttgacttat gatcatattt tcaacttatg atcatatttt caacttatga tcgggtttat 240
 caggatgcaa acccatcaca taaatggagg ggtgtctata aaacattgtt agacctataa 300
 ttttgctggt gattattcgg gaggtggtat ggcacagtgg ttaggggcag aggccttgga 360
 gttggactac atgggttcaa atcccagctt ggctgttttc tgtgcagttc taatccagtt 420
 ctgccacaac ctggtt 436

<210> 1408
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 1408
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 ctctaattca ccatattaca caagggctgc atacaggcaa gacaaagtat atggaaaaca 120
 tttacttctg tctttggtat tagaactcta cacaaatctg cagcatttaa attttccaaa 180
 acaaagtatt aaacgtggac aaagatgtaa ttggtaatgt cacaaaaagg ggctccaata 240
 tcctctgcta ggaaaccccc aggcccatga aatgcaacag gaagactaaa caccatttat 300
 aaggagaggg tctattgact aaaataaaca atacatgcta caataccatc cacaggagtg 360
 tttctgcttg tgtgaggctg ctccctccat aacaaagttc ggctga 406

<210> 1409
 <211> 349
 <212> DNA
 <213> Homo sapiens

<400> 1409
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 gagttccagg cctccaagg agactctggc ctgtaactga tttaatccca gggcagtaag 120
 gtgagcagca tgtaaccctt tgtcaaataa ggcagtggaa taaggggtga cagaggccag 180
 cactcaggct gtgctgctca atgacagtga actcttccag gcacagatga tgaggggtctg 240
 ttgctctcag acttgaaca tgagaacagc aactgtctct tgtccattaa gaaaaaaaaa 300
 gccaaatttc ttctctgggc aatatccaag cccaaggtgt aagaagaaa 349

<210> 1410
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 1410
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 gcagatgcaa atgtggggtg ctgagagtgg caacacaggc caccctaaac caacttcact 120
 cctccctctg tcctcagcca gtacagaagc caaatgtagc ccagcccta gactccagcc 180
 caggcagagt ccaagggagg ggtgtcaggg tcagaagtca cagggagccc agtgactatc 240
 aaggtggctg agagcaaggc tagggtaggg atggggcaga gaaagggcag ggggtgcagc 300
 ccaggtggcc caaagcaaca cagaggagca agggctggca ttcaagtcag caggtccct 359

<210> 1411
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 1411
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 aatgagttca atgatacagg tgctactgtc cactcaagca aaagaaaacc tcacatgtat 120
 atgaacgcac tttatactta tattcttaca gtataatagg tctaatatcc aggatgcctc 180
 tggctcattg aaagcaatgg cagagaaatg ctgcaaggta cttgaatatc atagtactgg 240
 caagtgcctg aagtaacttc ctgtgagttc tctgtcagat actgcaaaga ctgcgtgtgg 300
 gtgtgtttgt ctttttgtct tccatctttt ggtttacatt taaatcatct caaaaaatat 360
 cccctggcat gtatcattca gcttctcaga gtttccataa aaacaggaaa atgtcatgag 420
 gtatccctaa cg 432

<210> 1412
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 1412
 gaaaagacgt gcttgtcatt cttaataaac aactagagta agaatacata agagaaacag 60
 agtggtatct ttatatgata cacaagtgtg tgttacaaga attccatcag gcacaggagc 120
 ctgaggtttt aaggcctcaa tgtaggcca acaaaaaaaaa aaaaggcatg gtaaagtttt 180
 tacttttaca tctaaaatgt cacttgtcat aaaggagggt gtaatagaaa ttgtctttaa 240
 taaatcataa ttgaagttcc cctcattttt cttccattaa gatgctaagt ttatgtctga 300
 tcatgaagaa agaaa 315

<210> 1413
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1413
 gaagcggagn attactttat tcaggcaggg actagccagg cagggcacag cgtcagcgga 60
 tggggggagt cagcacatgg gagtgccgtc acctccatta gccacagnca gacggccagg 120
 agngtgccta ctgcagttag atggtgcact actgcagtga ggtggcgag ggctggtag 180
 cttgggcaca aaagccagca tgtcaccctc cctttggaga agcctctggg ccacaggctt 240
 tttccagctg acgggatgag gaggggaagg gacctagtac tatcgggatt cagctgactt 300
 agcctatnga gatggagcag gcaagagatt ccctttgcag ggtgggaggt tatattccta 360
 cagcctccat tcttggagta aggctccttt gccacacccc ttttcacc 408

<210> 1414
 <211> 454
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1414
 taaaacagca tacatttatt atctgaaagt ttctgtgggt caggagtcca aacgtgattt 60
 agctgggtcc tctgtcaga gtttcacaaa gctgcaagca aggcgttggc tggggctggg 120
 cttttatctg aggttcagat gcttcttcca agatcacatg gttgttcaca aaacttattt 180
 ccttgcagcc gtagagctca tggcagcttg cttattttaag gctaatagga gagagagtct 240
 ctgactgggt cactctcttt taaaggacta gtctgattag gtcaggccca cccaggggat 300
 ctctttgatt aactcaaagt cagctgatta gaaaccttat gtatatctgc aacttctctt 360
 cacttttgtt atataacata acataatatg gggagagatg atcccatcac tttttggcca 420

taatcnggtt gggttaagaa gcaggttaca tggt

454

<210> 1415
<211> 248
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1415
aaacgttaaa catcgttttt attcccagca cctaccattg tgccccctt ataatagaca 60
gtaatggtat agtgaatgaa tgaacaaatg aatgagttga gaaatccaga ataatacatc 120
acaagctaca gcgaatttnt cttgctagtg ctcaggacag gtgaaatgaa tcataacagg 180
ttggtgtctg tgaaaagctg acagagatgt gagaggtccc accctgagggc caacaaagac 240
tctgcagc 248

<210> 1416
<211> 272
<212> DNA
<213> Homo sapiens

<400> 1416
aatttctctc atctttattt ttattaaaaa aaataaaaaca gtcaccacca accacatgac 60
aactcgccag gcaaggcctt gcttccctcc ctcttttgcg tcccatgtgc ctagtcagca 120
aggtcgggga ggcaccgatg ttagcttcgc ccaaagggag tattacagag agaggcttgg 180
gaaaggaag gaaacctgga caggcttttc agcactgaga aatcacttaa aactgatttg 240
ctttcagtaa ctggtatgtc tgaaatgcag gg 272

<210> 1417
<211> 247
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1417
ggtgatgcag atttcaacag taactctgga aaactgtgaa aaatggtatt taaaaatata 60
tatgtatatg ctactgacag tttcaaagat gtgattcata aataatgttg gctgcactga 120
ttaattttat aacaattact gcacttccaa gttgatgcga acacgcagna cntcatactc 180
aatattagggc actagtaata tccttcaggc gtactacagt tttatgttag ctgtattgta 240
catatat 247

<210> 1418
<211> 268
<212> DNA
<213> Homo sapiens

<400> 1418
aaaattaaat ttctctttat tcaattgcct ctgagtagtg ctgtgatttc caagtgccag 60
gtagttaggt gtacaaatat acataccaca gaaacataca gtttttaaaa aaattaagaa 120
actggctgca tctgacgaca tcaagaaaaa agataattct gattcaaggg cttctccaga 180
agatgggggtt tcattggcat gacgctcata ggatgacctg tcatttttgt actatTTTTT 240
ctagaaccat agagggatga cagtaact 268

<210> 1419
<211> 290
<212> DNA
<213> Homo sapiens

<400> 1419
ccggggtgag acgggtttat tgtgcacatt tacacagcgt cacagcgtct gggctggcag 60

0954456 0954456 0954456

cagatacaaa gcagtattta tacatttatt tatatatgta tatttacttc agaagaaacg 60
 aacatttcgg ggacaggaag caagcaggcc cggggctgct tccctcactg cccacctcag 120
 agtcagagtt ggcacatgac aaataccaag ctcagggaga agaactggga gttaactggg 180
 aagtaggggg cgctctatgc acacgcaggc ttctaagggt gcacggtatg ggcaggagga 240
 tttgcactgg gaggccctat gtacagcttg aagctagggg gagattagcc cagtgactac 300
 aggaacaaac gccaaaggag ag 322

<210> 1424
 <211> 273
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1424
 acatgaacaa cataagtatt tatttgaaaa acattttcca tttaagtaaa atggcaaatt 60
 agctagagta gcttcttact gctaattcta tttgcactca cagtcacttt tattcatcat 120
 attcaaagat attgctacca aaaatgattt cacaaagtat ttagaaaaaa tatatacagt 180
 ctctctaata gaaagttaat taaaacaaca aagctaggga atatcaagct aagaaaggna 240
 accaattgac atatataacc acaataaat aaa 273

<210> 1425
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 1425
 ctcagggata ataaatctat tttaataacg ttacttttga caacgatttg tacatgtatt 60
 taaagataac aactttcaac ccccaccctt accccagact cccattacaa attgaggcat 120
 gacctgccct tgccaggaag tgagcaaagc tgcaacatca aaactctgca catccactc 180
 tcagaggagg gtgactttac actgtgttgg gaaaaataac taagcattta aatttttcat 240
 tgtacacctg tacattgggt tagattgaat ggctcaaatt aaacaaa 287

<210> 1426
 <211> 321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1426
 caggttccac cagaggcttt tatttcagcc actcaggacc ctggctttct gctccaaggc 60
 actgaacaca gtcaggctct tctaaacact ggcagggacc tccccacag ccacccccac 120
 agggttctct gtttcccaag tctgatgga ttcaggcaag accttcacac attcaccac 180
 tacctgctgg agaggagggt catgaggcag cctgtggtgc ccagctcagt gtgacacact 240
 gccaatgtgc cgctcccc agcctctgat ggggccgggn cttgaccacg tgacaggctc 300
 aagctgccgt gcacatcccc c 321

<210> 1427
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 1427
 aaacaccaca catacaaaa gcattttaaa ggagccacat atatctatat agcaactctg 60
 actgcttttc aaagttacca gggaaaggaa cttattcagg ctttctttta aaaaactcct 120
 tagttttaat gtatatcttt ttaagattga tgctgtcatt tgaagtaaaa taatgtcata 180

tggataatgg ggg

193

<210> 1428
<211> 397
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1428
gtacaaatcc aagggttttaa tggctgttaa ataataaaag gaaggatatt tgcactatat 60
acattcngtc cactgacgat actgtcagct ggccatgcat tttattgcac atataaacag 120
tgtacaagga tcttgaagac gtcttagcca tagaaggact gcatttaaaa gaaaaaaaaag 180
caattttaca gaagactgaa gccatttaca ttacacaacc aacttcaaga aaataataaa 240
aattaatatc aaaagaaata ctttaatttt gaaaaaaaaa tctctcaaaa caatggatta 300
caaagcttca tgctaccata tatacacgta agaaaatatt tcaggacccc gcattctgaa 360
tgcccgtgaa ggtgcagcag gctaaactcc tacttat 397

<210> 1429
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1429
gaagaatttt ctctttattg agtgctcagt gtggtctgat gtctctgttc ttatttctct 60
ggaattcttt gtgaatactg tgggtgattg tagtgaagaa ggaatattgc ttccccatt 120
caggacttga taacaaggta agcaagccag gccaaggcca ggaggacca ggtgatagt 180
gtggagtgga gcagggtgct tgcaggaggc ccagtgagga ggtgcaagga gctgacagag 240
ggcgactgc tgcctantg tggctggggc cttgggctaag tgtccccctt tccacaggct 300
cgctccagan ccagggcgng gcttgagaga gcagagtggc ccagggttagc ccttgccctg 360
gggtgctgg 369

<210> 1430
<211> 456
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1430
tcaaagaaag gatgcctgta gttagggaag tctgaagagt ttttaaataa aaaacctgct 60
aatctgggtt agagataatc tgtgactttc aggtagaag aacattcaga gaacataggg 120
cttctaatag aagaaggata aaccagaaga taggtaacaa agccaaagaa ataacttgac 180
aagaaagctg aactttggcc agaataataa acatgggagt tattagtgat atgaggtaga 240
aaggcggtgg gtgacagtaa aagaatcatc cataccattt ccaagttggt ggccagatgg 300
aaaaatttgt ccctaataac aaaccacttc agtagaattc tgtaatggac aaagttagaa 360
aaagccaaat atgttgcaat tataacagat tatgataatt atggaaacag aaagcnaagt 420
tactagggct aaggtattaa aatgagtaga agaaaa 456

<210> 1431
<211> 471
<212> DNA
<213> Homo sapiens

<400> 1431
tagcaatata aagaaagatt tatttttcaaa agtagcaaaa cttgttttgaa aaaaatatat 60
atctttaagt gaattacttt ataaatgtga ctgtcaaagt cagctatcct atgatctaca 120
ttttacaaca tattgtacaa aagatacatt gataggctct tatctattta tatattttata 180
attacatatt gcaacttggac cagcaaggct tgcagagtca ttcacggtag aagttaataa 240
agttaaatag atgggaatct ttgtaagtac aattgatctc ctctgggttg gaaacgaatc 300
tcctcgtcgt tgtaaagtgt tctcgcgggg tgggacagag agaggagcat tgcgaggggg 360
aagcagagac agagagcact gagggcaggg gtgccttcc cggggcccg ccccccg 420
aggcggcctt tcccagactc gcacctcaa ggtcaggacg cgggtggttcc a 471

<210> 1432
<211> 317
<212> DNA
<213> Homo sapiens

<400> 1432
aaaaaatata tgcgtatcac aattttattaa actctaacat ctaagagcaa aaacaccagg 60
attaagtaag aacatgcatg aactaaaatt tacatagata ttcaaagtaa gttaaattta 120
ccagagtcct gcatctggcc tctcccatgc cattatcgct attttcgcaa tttgttttgt 180
tcaggaagcc tctgatttta atattttaag tgtcacctga gaagagtaac ctcaattctt 240
catgttttct caacaatctt agaggtgttg gacatcatta ataaaatata ctaaattatc 300
agagaactta agaacgc 317

<210> 1433
<211> 463
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1433
tttttttttt ttcaacaaaa ctgcagttta atttcagaaa atgttaaaat atatatttat 60
acatcaattt ctgacataca cttaatgtgt tagtatacac aaaatgatgc tttcttttga 120
aactgtattt angaaatgta cattttaatt taaatactca gtatacactg cacttaatct 180
gcatgttgca tttattaaat acattaaaat ctgcaatgta acaaaacggt ttctgcatac 240
gaaattcaaa acaccatttt aaatgaacaa aagatggctc actttttttt tttttttttt 300
acaactagng tatngtacac tagctcagct ccaccaaaact acctgntcgt tcncttttat 360
ttgacattgg ttcacagacn agtacatatt acnataagag tgcnggataa aaacctgngg 420
tacgaaagtg ggttcccagg ntttttaggn cctggcagga tca 463

<210> 1434
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1434
tttcggtttt cacactttta ttgtaaagct cggaataat tacacgggtc tttcattgac 60
agctcagcaa acaaaccgga aacgaaccga accggagggn gtaggggagg tgctgcgcac 120
gctcgcggcg ggggtgggggg ggggtggggg tgggntctct ggggtacaag agtcaagacc 180
ccagcagcac agtcccaaa ggcaccagac gaccccgag cctgtacca cccctcgcaa 240
tcttgacca cctcccaag cttagactaa gtcaagcaag ggccataccc tgagtctcca 300
gcctccagc ctgggcccct agggagctgg agaggtatgg gccaaaggcag tgggggtttc 360

tggaagaaag aggggctgag gctttgagat ggccacagtg ggagacgggg gctctgcagg 420
acgcccctta caccctggcc ccttgagggtg aagaagagaa ttcacc 466

<210> 1435
<211> 252
<212> DNA
<213> Homo sapiens

<400> 1435
ttgccaatga tgttgagctt tattaatggc ccctctccag aggtctgetca gttgtcccca 60
gggaactcct cagagatcct ctgccttccc acatatgagc ccgaggacac ctcgaggagca 120
gagaagtgaag aggggttccg ggctcagacgc tgcactccac gcttgcgtcc tccctgtggc 180
tgcagtcatg atggccccag ctattcttgg tgcagctcca cagggtactc tccgtgcccc 240
gacactgaac aa 252

<210> 1436
<211> 323
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 1436
gtgacatggt ttttgcttta ttgaaattct ctcttcaaaa aggtctgang tatttttaggc 60
caggcctaata ttgcttttgt ccctgaaatg caggcccatg gtcatttcca tgcctctga 120
agtaggtatg taaactagta gacttccatt ttttaagggtc acacactttt taacattggt 180
tttatttgat gtaaaacaag acttatgttg tccctaattg aaagaccaag taagagagtt 240
atgtgcgtct tcatggaagg gataactgga ttctttgcca gaaccgggtt gggaatttag 300
tttgttcaat gtggcatctt tca 323

<210> 1437
<211> 427
<212> DNA
<213> Homo sapiens

<400> 1437
tttttttttt tgagctggag ttttgctctt gttgccaggc tccctgagcag ctgggactac 60
aggcatgcac caccatgcct ggctaacttt gtatttccag tagggtttct ccatgttggt 120
caggctgatc ccgaactccc gacctcaggt gatccgctg cctcagcctc tgggattata 180
ggcgtgcact tgcgcccagc ctccagtttt cttttcttta gagcagcggg tttaaatcct 240
tttggttca agttctctga aaatttacta tgcctctccac aacaagagct cccattttcc 300
acagacacag tcaatgtcag tcagcttgta ttcaggagga cagggcagag ggatcccagt 360
ggcacttccc atgggaagac agaagagagt gggccccaga gatggaagga ccccagtgtc 420
atcacca 427

<210> 1438
<211> 422
<212> DNA
<213> Homo sapiens

<400> 1438
taacaaaatg gccctaatac aaacaccaac aacttcactt ggtcttcaaa caaagaaaca 60
gtcttttttt ccaacatagg aggaaaagct acttggtgtg gatgtacagg tttccaacat 120
ggcacccttc taaagggtt tcaaggatca tcctaatagc ccattttacc tatgtactga 180
ccttgaagc taaccctga gtatgatgca actccactct aatgtaaatt aaaatgccat 240
gatcttaaaa atgccataat attgtcagta taatttaatt tccagtttag ttccatcttc 300
acatttagca gtgtgtgtct gtggcgtct cctggtgcca gcatttcaga atgtactatc 360
actggctgag aaaatctcac ggtgagaaga gtagtgtgtc ataagatctg aacaaaaaag 420

ct

422

<210> 1439
<211> 330
<212> DNA
<213> Homo sapiens

<400> 1439
agatagtagg atttatttta atttttcaat ctgaaaaaaaa aaaaacccaa aacaaaaaaaa 60
aacaactat cctcatatat atatatacag tgtcaacatt ttcagagcac ttacattagg 120
aaacattgtt tctcttcaac tgtatgacaa tactgtatat gccacaataa aatttacaaa 180
aacaatcgca tcagcagtca taacaaacat catgatttta catttcaata cacaagaaaa 240
aaaatagaca tcttcccggc acttggtcc cgctgacgg caacgtctcc tccacacttt 300
gagagacctc agcttttaaa acccagcagc 330

<210> 1440
<211> 420
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1440
catgttgtcc ttttattgtg tcaaattata atgatatcat taaaatcctg ctagattcag 60
aaaaaactgt agggagcaa taaacaattt gactttccaa atgatgagga aagttattga 120
atttaccaa cataaatata aaaatagtat tttgttgat aattaagact tatagctaga 180
gaagtagaaa tgtacacaaa aaaaacattt ggtatcaata atttggttgt gcattcattt 240
attcagtcaa caaatattta gctgagcact ggctagctgc caggtattgc actaaggacc 300
caaagatggg aagagatgat gtccctgcc tcatggagct tgcagtcgtg ttgagcagac 360
tgtcaaacca gatttaggta aggcaatgtg acccagtgc catgntacca aaccaggat 420

<210> 1441
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1441
atttaattta tttatgtaac acagtgtaga aagctatcat ggcataagca atgattctgt 60
acaatcatcc tgcagaaaat taatttttg agaatcttg gtaattggag accagcagaa 120
cactccctcc cccaccccg taaaagtgt tatgatgaac agggataatt ttnttttaat 180
ttttttttat caaagatcca aagatacatg gacaaaaaaaa atgttcaaatt tctcaatgcc 240
taatgtgtgc acataaaaca ggcacaaaga aatcaatgtg taccctctta ttcctatatc 300
acaaagagag cagaagcagc aatctgtaca gtaagatgca gtcattggaaa agaattttc 360
taagtcattt ggaatactta aaaaaatgtt caaatggca tagtgatcag g 411

<210> 1442
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1442
ttttttttta gctttgacac atttttatta ggtgcatgaa aactaaatgt cttattgcc 60

```

agtatcattt ttacattttc tcgtcaaatt tttataaaag cttaagagca aaatgcagta 120
ggatcttaaa aaaattctac aaacatagct ggataaattc tgctgctgag ccagaactgt 180
tggctggaag gcagcgcacc atgcgatcgt tccaaaggct gtcagttttg tctaaagaca 240
caagctggga tcctctaaga gttgggcaac taatagcaaa agcccacttc ctgtcatagg 300
aagggtattt tcaaactcca aaccccagca ccacttctgt ctctgaaang gagagggaga 360
gaaggaggag ctgtttacaa acaggatgtc tgattacgga gttacaccgg tggccagatt 420
ggatcagata tttaatgctt gattaggggtg gctagtgggc aggttaaggc tggcagattc 480
tgagtactct ccatttaagg acgcctgcac cnggatacaa cttgccgact tcataaccca 540
gctctgtggc tggctagcct acgnctttta caagggacaa gttcggggcca aggctcagtt 600
ggtggattgg aaaataatgt ctatangacc ccattatacc taaagtttct aagccataaa 660
gtctgtgact gtgtgcatgg tgtagacatn ggctaaaccc agaanaagggg ttagaaaagt 720
cntcctaate cttaatttaa gggtattaga nttggngggt cccttccagg ttttggcctc 780

```

```

<210> 1443
<211> 422
<212> DNA
<213> Homo sapiens

```

```

<400> 1443
tggaggaata agcatttttt aatttcttat ataaaatgct aacttcttgt caggacatac 60
tacagactat gcattgaatt ttttgacaaa cttcctgtaa tctttttatt aatttacact 120
gagggaaatat agcatttaaa aaacaattac atttaaaaat ctggattctt gatgttaaatt 180
ctcttcgact ccagatacac aatttctctg aagctgatgg aaagtgattc tatttctgac 240
aatgaaagag gctcagaaag agtcctaatt tgctttcaca gtacaggcat tttccaaaac 300
ctggttctgg gcttacggag cacacacaca caaatcttaa tgcaatgaac aatatttcaa 360
accttatttc ccaaagcaaa acctagggct taagacgtca aaatcttcca acagttctag 420
ac 422

```

```

<210> 1444
<211> 572
<212> DNA
<213> Homo sapiens

```

```

<400> 1444
ttttttgaca ttgttctact gttttattga ctggttgcac ttacaagttt tgctaattgat 60
acacagtcta cacttactaa taaattatac tcacagtgtt tttagtgatg tgactttggt 120
tcaatatttt ataataaaaag attataggag taattacaga caatgataga aaagtttgag 180
gcatcgtgac aaaatagtgac aaaagcctaa gttatccaaa agatgtagtg atcataatta 240
taaagactgt gtagtgccc tgggaaatgc ttacaatgag ataccaagca gtcaaaacgg 300
aatctaacca cgcacctgta cagtagttac aaaggtatta caaagcttgt ctctgcatga 360
acacagtaaa gaagtcacac atacacaaac gactacaatg gtgttctggt attgcgactg 420
tttgtttttt cttcttttaa tattattttg ctttattggt gtaatgttat ttttgtaata 480
aataaattca gagagaacat cctactatta gacaaggaaa atgccagaaa tctgagatat 540
tttccctctt atggccgtat tatattgggt ac 572

```

```

<210> 1445
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<223> n=a,t,g or c

```

```

<400> 1445
tttttttttt tttttttttt tttgcattgt tttacatctt aagcccttta ttgactacaa 60

```

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| tgcagaacat | tttatttttaa | gacacagtgg | gttttgTTTT | tgttgatggt | ttcaccaatt | 120 |
| caactgaaga | cgaagcaag | acaatcaaat | ggtaactagt | agcagcctat | cagtaaata | 180 |
| gggcaagtat | agagactggt | ctttggactg | aggTTAAATC | aattagtcaa | tAAAGGCTTT | 240 |
| tccactgtct | aataattata | acataTTAAC | agTCGCCAAA | tagtgTTGGA | TGGGACTCCT | 300 |
| ctagaaataa | ctaaagcctt | tcattttata | catgaaatag | ccacaaaatg | tagatggggt | 360 |
| acatcaactc | attgggattt | gccattTTAA | attacnctga | gat | | 403 |

<210> 1446
 <211> 374
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1446 | | | | | | |
| ttaagacaaa | cataaccttt | attctctctc | aaaaaccag | agaacagggc | ctggaaccat | 60 |
| attcgTTAAT | ttaaccagaa | tcagaatact | ttaactttca | tagtctcatt | tAAAATTTTA | 120 |
| tagcaatata | ctgaccattc | tAAAAATAAC | aaaatacatg | ttgctctcaa | ctacatagtt | 180 |
| aaaaaaggta | gtAAATTCTC | ttacccaaaa | tagaggaggg | gtgggctagt | gagctgctca | 240 |
| aacatttGTA | acaaataaaa | atgtatctat | atacatataa | tgatcatggt | ttcatagcct | 300 |
| aaatcacca | ttaacaaaat | ctaataataa | aattgtgtcg | tgttcaggag | ttgggaagcc | 360 |
| aacacattaa | attn | | | | | 374 |

<210> 1447
 <211> 447
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1447 | | | | | | |
| tatggtagta | acagtttcat | tcagttttgc | attttacaaa | tttaaacaaa | agtctttctt | 60 |
| tttttttttt | ctttacttgc | atgtttgtct | tttgagtgtg | ttttcaattt | gtgcattcct | 120 |
| tagaaaatct | ttgtgtggac | tttggagttt | ctccctgaaa | tgtgccaggc | gcctgagtca | 180 |
| gacacaaaca | ctcccttagg | accttcgtca | gaaactccac | ccctgtgtgg | aatctccttc | 240 |
| ctctctctct | ctccggagat | gccacccgaa | ttcgaatgtg | actgtgtggt | tctgctgaga | 300 |
| ggTCCATTgt | catccccaga | tgaaagaaga | gaccaaagca | gttaccactg | atggaagcca | 360 |
| gtgaagatgg | ttgggggaac | tccttaacct | ttcctgggaa | tgttttgaac | gaggacgccg | 420 |
| ggTccttttg | ccagtcagga | accagca | | | | 447 |

<210> 1448
 <211> 302
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1448 | | | | | | |
| gtttttttaa | catagttgct | gtAAACgtct | atgggaaata | cagtctttat | aataggttct | 60 |
| gatagaataa | ttgagtaatt | cccccccata | agtacatttt | attgactggt | actgcataat | 120 |
| aggcgataaa | tctgatgctt | atttggaAAA | gaagtaggca | ttcttttagat | gagctgtgct | 180 |
| ttgaagactg | ttatgaaaag | gaataagaag | tcagcatagt | ggcactcctg | gtttcctttt | 240 |
| ttggcccccg | cacagaaaag | atggatgtag | tAAAGAAAGT | tggagtgaag | gagaaagttc | 300 |
| ca | | | | | | 302 |

<210> 1449
 <211> 419
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| <400> 1449 | | | | | | |
| tttttttttt | tttttttttt | cattttcctt | gaagtttatt | gactgttact | ggTggcagac | 60 |

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| aaattccata | aacgagcagg | ttccatatgg | agcaagtaga | aggggagctc | tgagttggtg | 120 |
| aggaaggatg | cgtggagtgg | ggacttggag | taaaggatgg | aaaggtagat | ctctcctttt | 180 |
| tccctccatt | cccataagga | tactggatta | acaatggggg | ctatctgctc | agcattccct | 240 |
| ctccaaattg | gagccagaga | ggggaaatga | tgcaaatacag | aggaggaaac | acctcacagc | 300 |
| tcctctgttt | ctccatccaa | ggggatgcca | atatccacgt | tgtagtctac | aggctcccca | 360 |
| gagtcagcca | gggaataggg | gttcgattga | aaagaaggcc | tggttgaaaa | ggttttggt | 419 |

<210> 1450
 <211> 411
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1450 | tttttttttt | tgagatcgag | ttttgctctg | ttgcccagtg | cagtggcatg | atctcggctc | 60 |
| | actgcaacct | ccacctccca | ggttcaagcg | attctcctgc | ttcagcctcc | caagtagctg | 120 |
| | gaactacggg | tgcgtgctac | cacaccacgc | taatttttta | tgtagagacg | gggtttcacc | 180 |
| | gtgttagcca | ggatggcttc | gatctcctga | cctcgtgac | cgcctgcctc | ggccttccaa | 240 |
| | agtgtcggga | ttacaggcgt | gacaccgcgt | cccggcctca | actttttatt | tattagcttg | 300 |
| | ttggtcttca | acctctgtaa | gcctcagttt | cctcacttat | caatcatcta | ctgctgtata | 360 |
| | gagacaggtc | catctcctag | catgcagggt | gaggctaata | tgacatttga | a | 411 |

<210> 1451
 <211> 638
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1451 | tggtgcatcc | gtgtgagctc | cataaatctg | ctatggaaca | gaactactgg | ttcttgaatg | 60 |
| | gaatcagttg | tgctgtttgc | tccctcagat | gtctgcttcc | catagatcct | accagaaatg | 120 |
| | aagtcagaat | cttcctcttt | tctctctaga | tgctgcaatc | gcttggaatc | ttgttcaaag | 180 |
| | attgagctgt | gtaaaaaacg | agaagcaaac | aattcctgcc | tctcttgctc | ttcttcttta | 240 |
| | tggtcctctt | tcttatcatc | cattttccct | tctgaatcag | tcctaatttt | cttctttttc | 300 |
| | atgtaccagg | atggaatagg | tcttgaggca | gagtcacact | tttctttatc | tttggtgttt | 360 |
| | cgaaaatttg | caaatcggga | gtcccaatca | agaaaagacc | aattttcttc | acgagatgaa | 420 |
| | gagagggatt | tagctctttc | aagcaaagct | tagtgtctgg | tgtgattgtc | tatccaatgc | 480 |
| | aaaagagtaa | aatttggttc | ttctaaagaa | ctagagagtc | tttcatctcg | ctcacgtagc | 540 |
| | tgtcttctct | gtccctcaat | aaaaaagacn | atcgagaaac | ttcatataat | ggcagagggc | 600 |
| | tcgggtgagt | ggganttggt | ttcaccatcc | tcgtcaga | | | 638 |

<210> 1452
 <211> 354
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1452 | tgctggggcc | acgtgggcat | cctctttatt | ggtgcttcca | aggtgctggt | gcagagccct | 60 |
| | tggctgaagg | gcctggactg | tgggggaggg | tggcagcccc | agagacagca | ggggagagga | 120 |
| | agcgttcttg | cataaaaaaa | gagttccttg | gtaaggctcc | tgtttccgag | cattcgggca | 180 |
| | gcaaggggag | tggcgcacac | ttctcagccg | aagacactct | tgggtgggtcc | ggctttgggc | 240 |
| | ttctcaaaga | cagtctcggt | acctgtgcgg | gtgcggctga | acaccgacgg | ggcggccgag | 300 |
| | cagcttgctc | acactctcgc | atgacctggt | aggtcttgga | cttgatttcc | tggt | 354 |

<210> 1453
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 1453
 gactaaaatg aatatattat tctaggttaa tttttttcca ttcaaagtgt tatactccat 60
 ctaccagaa caattacagc agaaaaaata ggcacctcca aagtcttccc aagaatgatg 120
 actttctgaa atgacacact gtacaaactg gacaaatgag acgactgact gtgacagggg 180
 ccggggagct cttcaagggg ccgttttctt caagtctcgg atctgtttta tcaagtagtt 240
 cttctcgtca gcgaactgct catcatccgt cttttctttt tggaagctgc tcagaaactc 300
 aatgagtttg ggctgatttt ttaacaggat ctccacaata ggctgtgttt tgtgaggact 360
 ggccacaaac accttaaaaa catgaaa 387

<210> 1454
 <211> 317
 <212> DNA
 <213> Homo sapiens

<400> 1454
 ggaaggaagg aagggtttat ttgatgcaga ttcttcagca ttttgttttc acagactccc 60
 ttcttttccc ctcttctgga cccacctttt tgccatctca ccgttgatga gcagcttcag 120
 cttagagggt aaagacaggc atgatcgca ctggccagca tactggcgtg ttctctctgt 180
 tagcagactt ttgccaaagg tttggatgga atgggtggct cttcaggtgg aaacaggtc 240
 gtgggggtca ggttttgggt gcctgaaact gctcttcctt cactccactg tgccatgact 300
 ggctcccacc cgaagct 317

<210> 1455
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 1455
 gaacgctggt gatggttcat gcaaaagatt actatgcaag gagcaaaatc taagactgct 60
 gttttttcca ataaattcaa ttgttttcca caatgtagaa ttttaattctt caaattaagt 120
 gtagctagga cagtgaagtga aactaatcac tgcttgactt ttattttcat ctaggaaaaa 180
 taacatctga tgtcaccaca ttaaaatgcc ttctgtctta atatcagaga aaaaaatata 240
 tgttgccagt ttagactcag cgcagtttat catttggtcc aaatttcata ttcaaactac 300
 aaaaaatatt ttttaataaa gaaaacatat 330

<210> 1456
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 1456
 tttttttttt gagttttcat attttttatt taagaaaata cttgaattgc cttagacaat 60
 attaaatatt taaacaacat gagaaagagt gccagaggct agaacatagt atttagttca 120
 ctgagttgcc ctgacagata atgaatggg attgatttaa tagtgaccaa atacactggc 180
 catatttact aaagtgctgt aaaatggcca agtgaggaca actgcatcta aaatgagatc 240
 aaatcctcga gtccattcct ttttagcagaa atgattaaaa ccatcttggc aggaccaagt 300
 ctttg 305

<210> 1457
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 1457
 cagcaacaaa aacctgtatt taagcggcta attccagaga tgagtagtgg agagagcaaa 60
 tgagcctggt tagagctcac tctgggagga gtatgtggac gacacttggc tgtctcttca 120

gggggccagg ctggggcccta gcaactcccgg cagtggaaaag gcagagctgg ctgccagctc 180
 tggcctccgc ctgggattca ctcccatcct ggctcagatc tgtggctgtg cttcaccag 240
 tgggtcctcc ctcaaggagc caggcgggat ctggaagggg ctgcttatcc ccaccacaga 300
 acgcagactg ttgctgtagt aacagaggag aaactcatct tcagtggtag ggatattgct 360
 gatgtcgatg taaacctggt tcagattgtc gctgcaggag accttgct 408

<210> 1458
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 1458
 gaaagaaaaa aatatattat catttattat ataacaatgt caacattaac accaagacag 60
 ggacagactc caactacgca ctagggaana acactcaatg aggcaagact ttctagagcc 120
 caaaagaagg aatgggggaa gagatctggg gagtagcgtg aatgtggctg gttgatgggt 180
 gtggtggtag tgggggggtg gactcatctt tttgtgttg tttttttaag ttttgagaca 240
 aaacaagaaa gtcacatttt taaaattgtg gtttcaagct actgattaga tcagcatcca 300
 gcgaccttga gtgcagatgt gaacattggg tgaaatgaaa aatcttgtct gtgggggttct 360
 cttggctact gtctctctcc ttctctctct ttctctctct tctctctct tctctaggaa 420
 atgtctgttg tgaagcaggc ctacttttag ctattgtcgc tccactctgg caccatgcca 480
 ctccgtgcac agaggggtac t 501

<210> 1459
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 1459
 tttatgaatc ctgaaaattt attatttggg agaatatcca atattgattc tttgttttac 60
 agctcataat gatcagaaaa tataatttta aatgaaagt caaagaaaag gataattaca 120
 tataatacat attacagatt tatttgtaca taagcaaagc agtactaaaa gcatatttat 180
 gtgctcacia ttagtgaaca tggcaatttt ctgtttaaag ctgcagcaac tcaaatectc 240
 ctagggtcaa taaagaaaaa catattgaga aatacattta gggctatcac catgtctggc 300
 tgtaaatacta ttttttaata tttcccctcc ccccatatat atgtatatac tttattgc 358

<210> 1460
 <211> 267
 <212> DNA
 <213> Homo sapiens

<400> 1460
 ttttttaaaag ggaaatcatt catttattaa ggatcgcaag acaacatctt aatttctgta 60
 gtacgattta aatgttttac ttctttgata aagcagagta caatagaaaa aaaacaatta 120
 gtttccagta atatctatat ctctaatacag aattaagtct tccaagacat attacctgga 180
 aataaaaagcc tgttacaata agcaaagctt caaccagagc ggctactttt cgtgccagga 240
 aaaagttcat ccctataggg aggaatg 267

<210> 1461
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 1461
 gcctttttcc acaggttcta atccagcacc attattaaga ctattcttct tccattgaat 60
 tactttggtg atgctacttg tgctgaatcc ataaatctca gatcaaaaata gccactttca 120
 ataagatcca ggtgatacat aatctgatca aacaactctt gccctttggc tttttttggc 180
 aagtccacac taacatcagt accatccaga aggacacct gacacgtgat gatggacctg 240
 gaatctccag gggcaggaat atgtgtggca gcgcattgtg cttctcggag tcgttccttc 300

tctgcatgtt tacccataga ccgactccct agtgtttctac ggaagaaact cagcattttt 360
gtcactgagc tggggacggc atgtccccgg tgatagcgac cagagagatg aaga 414

<210> 1462
<211> 396
<212> DNA
<213> Homo sapiens

<400> 1462
tttcagatca cgacaacagg taaccttttag tcagaactca ccaccactg tgtaagcct 60
tacatgacaa tcaccatgaa gatttacata cacatgttat atcatagtct cctcacaaca 120
tgtctaagag gtaggcacgt cattgttccc attttgcaga tgaggaaact gaggttcaga 180
gagggcactt ggcttgccca aagtcacaca gcagggagtg gcagaggaag tcaggttggg 240
tgaccccagt aactgctctc agaggctggg tgatgaccgg cttcctggct tctctggaat 300
aaacctttgc caccacttcc tgcatttcag cttcagtaca ggcagagaat ggggataggt 360
gggggaatga ggtgagaggg gagatgttta gaggtg 396

<210> 1463
<211> 412
<212> DNA
<213> Homo sapiens

<400> 1463
tttaacaaaa tgctttatatt ctatttttaa atgagaggca ttcccatgaa atatcaaaag 60
gcatttacat gtgttgTTTT aactcttctt ttttgatcac acaaagtagg tagaaaagat 120
ctgctgaaat agagcaaata agaaaccaag tagtgtaagg cattaggaga tacatgaaga 180
gaatcgctat ttgcttcttg tacagcgtgt ggcaagtcac ggttagtagt catcgtagtt 240
gacgctggct ccatgcctaa agccgtaggg gctccgggga ccaattgcag agtcttcata 300
atagtacgt tggtagtaat cgccatagta ttcatgtcca tttcgatctc tgtaagcca 360
ataggtgatg tcatcttcaa atttcgcttc gtcaaagccc atgtagagaa ac 412

<210> 1464
<211> 376
<212> DNA
<213> Homo sapiens

<400> 1464
gagttatggg agtcatgaga gcatctgata gctcctctgt gactcatcca tttatttttaa 60
tgacatctga atatgacagt atattgaaaa aagaatgcat gttattttatt ccatactggg 120
gaagtgccac tataacattg ttttaaaaaa tcttcaaaaa tttcctatta gaacctatca 180
ttgaattaga aaagcaagct ttgccaaatg cctgattatg cctttactgg tcctgctagc 240
tggcatgttt caccaacttt tccctagtgt ttcctttggc actgttgagc ccacactaca 300
aaacatgaac aagtcccaca aaaccacact atgcctctg cttccccata atgtggggac 360
catctgcctg gacata 376

<210> 1465
<211> 460
<212> DNA
<213> Homo sapiens

<400> 1465
ttttgacact gaactttata ttttaataatt acagtaagaa ttttttggtg gattttattc 60
acacacattt taaaaatcat gaacaaagtc attaattctg aactcaagta acagtcaaaa 120
atattttta ttaaattaag gcactacata cacatttctt taaagcacac tgatgttatt 180
ttatttacac actattttta gaattaacaa taaatacaca ttttccatct cctccttgtc 240
cttcatttat aactttatat gttaacaagg aagtaaaacc ctccaaataa aaggaattaa 300
atgcaataat ccataaagct tatcagatat gggcacaaga aggagacacc cataaacaat 360
gtaaaaacat tttaatcctt taatgttaca agaatttatc tataaattct tatgccattc 420

ctagtgggaat aataatataa aacctataca caaacattga

460

<210> 1466
<211> 452
<212> DNA
<213> Homo sapiens

<400> 1466
tttttcctgt tacgccgtca atgcagcagg caatgagggg aatgacacag ccctctcatt 60
cccggaacgt agtcaatctc ggctctgcgg atttcacaga acacactttg cctattgccg 120
gctccaacaa gaagtaactt tccaggaagc tgccggcccc ggacgcgcca ggatcgctgc 180
ctgcgctgcg ctggccgccc gggattcacc cggggaggcg gggccgcggg ggaaggctcg 240
cggggaatac agcacacttt cccctaaatc cctcgccgc gccgagtga gggctctcag 300
agttcaccta gtcccacctc tccccacaa cagtttataa atggggaagg tcagacaagt 360
tagtagcaga gctgggtcta gaaccagga gttcgaatgc aatccgaggc tcatatcgag 420
actttaagtt gtccgattcc gaagtttatt tg 452

<210> 1467
<211> 283
<212> DNA
<213> Homo sapiens

<400> 1467
tttacgattt aaaattttta ttgttaccaa acaaaaatat ccactcaaaa tacaattcaa 60
caatgcaaca gtcattctac agcagagaaa tgcagagaaa agcaaaactg caagtgactg 120
tgaataaagg gtgaatgtag tctcaaatcc tcaaagagtt gtgtttattt catcgacaaa 180
tagattattc gtattcaatt ctgatgtgtt ttaaagacta agatgtcat tttacgatta 240
gcgcacatgt gtatattgtc acctgttctc cttagaaaaa tgc 283

<210> 1468
<211> 181
<212> DNA
<213> Homo sapiens

<400> 1468
tttttgtgga ttagatttta atgtgaattt tggaagtaca caaatgttc aaactatagc 60
atgtatatat atcaagtgg cagtataaac tacttgcaag taactttaga acacaagtgt 120
ttgcccattg gtagtgagat ggattctaag ttgagatatt agctagaaca ttccagttgg 180
t 181

<210> 1469
<211> 514
<212> DNA
<213> Homo sapiens

<400> 1469
agaacaaaat atatggtatt tattaacac atgtgacata ggttataata tcaaagtaga 60
gcatgcatga acagatgatt cattcgttta aaaaaaacac caattgatac tgagaacact 120
aaattattaa atttccaaga catataaaat tctctttaag ttaaagtgag aaagaaaaaa 180
aatcacaaag ttgaataaat acagtgattt cagctggtcc aatgaaagca taaggcacia 240
attaaaccaa gggactagcg catcagaatg aagcttgtct ggccacaca agtctctcag 300
tgtggctccc acgaccctgc acagatgctt gggaccaaga ggaaagagca cctgcaggcc 360
gggaaccctc ccttccaggt tcaagtttgg ctgggtgccc atgcttcttg tggacaggcc 420
tctctgtatc agagaaacgc tgcttctaact acttttatgg gtaaacaaaa ccttcatgct 480
ctatcaaaca atcctggcat gaataacatg aaac 514

<210> 1470
<211> 449
<212> DNA
<213> Homo sapiens

<400> 1470
 tgttaaagt catagtgttt actttattta aatcctgagg ttaaaaataa agtattttcca 60
 catggcatgg cagacactat aaaataatat gcttagggat acaaaagttt tccacccccca 120
 ttgagcaggt ggggtgctgg tatttgatgt gcttctagat aattcttttg cagataagaa 180
 tgaattgggg tcccagaccc accatcccgt aaggccacat gaattgagga ttaatcaatt 240
 aaagtgcaat tccaaatgtt gagccttcca aatgaggctt gggatttgc ctgcagccac 300
 cagaggcaga gtgtctctgc ataacataca tcaagcagcc tttttctttt tttaaatacag 360
 agatgcctcc ccaaatttca agatgtactt tattatttta aaagtgttta agaggaaaga 420
 gagaattatt aattcagtct ctctgttt 449

<210> 1471
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 1471
 tttttttttt tttagaaaaa ggcatttaaat tacaaaattt tcttttaaat aaaaaagcaa 60
 tggcacgaat caccacaaaa tcatttaagt gatcatatcc acaggctgtt cttgtaatta 120
 tatgctaaaa atttatgact gttctcatta acagcattcc ccccttcat tagagacatc 180
 aagagcttct gagaatgtgt agtttttctt aaagtactac taaaagtatc atgaacaccg 240
 tttgtgcagc attcatttac atcacctttt atttactata ttctaaactc ataaaatatt 300
 taacatttct ctacttcatt tcttatttac agtacagagg ctcatctctt gtcacaatat 360
 ggtttgtgca ttaaaatccc tggg 384

<210> 1472
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 1472
 cgggtgattt tgggggggtgg agtttcagtg agaataaacg tgtctgcctt tgtgtgtgtg 60
 tatatatata gagaaatgta catatgtgtg aaccaaattg tacgagaaag tatctatttt 120
 tggctaaata aatgagctgc tgccactttg actataaa 158

<210> 1473
 <211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1473
 gatcgcgcca ctgcactnca gcctgagtga cagagtgaga atccatctca aaaaaagaca 60
 aaaaacaaaa ttgcttgcta aagaagtggc ctctgaggt ctttaagacat tcttgacagt 120
 ntcttgagtg ggtggnagag aggttgctgt cattgcncgt tgggaatttca cagatgagac 180
 cagcctagc caaaatcact tttctgttt gcctcagtga cacagttcag ggccctcgtg 240
 gatgttgat taaataaatt nnacntnac tnttgccaa a 281

<210> 1474
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 1474
 cagtttcaaaa acaaccttta ttctgtttga agatctaata caatgcatta aagcaactta 60
 aaacaagaca tagctccatt gaatctataa cttgaacgaa atgtcaagga ggcacactac 120
 cccaccccc caccacagtt gccttgtaga ggcaaagtta caactgaccg tgacatcctc 180
 cctctcgtca aaagaccaac tttattttta caatgtcata taaacagatt tttaaaaaca 240

ttgaacagat tgtagcttta aaaatacaca ggtataaatg agtttttttt tgttttgatt 300
tttttaaata catat 315

<210> 1475
<211> 223
<212> DNA
<213> Homo sapiens

<400> 1475
cagaaaacta aagcagcacc tttattttat acatacaaac agtataaaat gtttattagg 60
taagagctgt gttttsttta caatatatta tatybscttc avrcgccaat gcaaaaavvg 120
tcatacatta tattccctat ttcattgtgt ttagaatata ttatattggt taaatgmcac 180
taccacagtg taattttttt ttttttaata ctgaatctct gga 223

<210> 1476
<211> 317
<212> DNA
<213> Homo sapiens

<400> 1476
gccaacacag tgtgtcatgt ttattgggct attcacaggt aagcttaaaa tacaatgaaa 60
agaaaagacc agacgtcatc aggaatgtcg agaaacaaaa tatttagcat ttcttagttt 120
caaatgttac catttcattg cagctgagga atataggcca ttcgttgaca taactgcaat 180
gggtgagact tatttttagc cacaggaagc aaatacattt aaccaatgac ttttaggaca 240
ggaagcaaaa aagaaaacaa tattttcatg tagcacggac aagaaaatca tttatacaaa 300
ttaaagtgat ataaaat 317

<210> 1477
<211> 175
<212> DNA
<213> Homo sapiens

<400> 1477
aatacaatac aggtttattg catcatttag ctaattccca aagaagagaa taacacattt 60
taaaccataa gcctgtttga ccatgctaaa accttttttg agctattcag gatcattaca 120
accccatatt cttttgtgta tactgtgcaa atgcaaaaaa aaaaaaaaaa accaa 175

<210> 1478
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1478
agatganttt aaggttttat tgagtgggtg agctggctct tggtagatg gatggggagc 60
tggaaggggg atggagtggg aaaatganct ttctccgcag tgtggccgct tagcagctaa 120
tctcctctct gaccatcccc aaccaaagtc ttgtcaatgt tcagtcactc cttctctnct 180
ctttgccact ccattcttct gtncttctgc tcttctcttt gtctctccct tatttgcagg 240
aggtcacagg gaagtagaga gggggatgaa gaaatacatt tccatcctga ggtgggtctgc 300
catctcactt gaagaggggc tacaggaata aggaagtgtt ctttttctcg ttgtaatnca 360
aggggcaata ttccgggtta agg 383

<210> 1479
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1479
 agatganitt aagggttttat tgagtgggtg agctggctct tgggtgagatg gatgggggagc 60
 tgggaaggggg atggagtggg aaaatganct ttctccgcag tgtggccgctc tagcagcctaa 120
 tctcctctct gaccatcccc aaccaaagtc ttgtcaatgt tcagtcactc cttctctnct 180
 ctttgccact ccattcttct gtnccttctgc tcttctcttt gtctctccct tatttgcagg 240
 aggtcacagg gaagtagaga gggggatgaa gaaatacatt tccatcctga ggtgggtctgc 300
 catctcactt gaagaggggc tacaggaata aggaagtgtt ctttttctcg ttgtaatnca 360
 aggggcaata ttccgggtta agg 383

<210> 1480
 <211> 208
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1480
 ccaccttctt caaagagaca ccagtcagaa atatagatat gcttatgctt gcttgggtgctc 60
 cttgattata aatagtccaa acatcaggaa actaaaatca aggtgattat ataactccta 120
 aagatggaag ttgtcaaaat acatcatcac aaaacaaatt ttaaanggct attttaaata 180
 cangattcca tcttcactaa actgcccc 208

<210> 1481
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 1481
 atgcatgttt aaacatttaa tctagaactt gattacaaag taatttaatg aagaaaataa 60
 tctgttataa ttcttataga tgtttattag tttttagatt taaaaaaaaa acagggtcta 120
 taattaaagc aattgactaa tgatctcaca gcctcaagggt tgtatgcaaa cctagattag 180
 aaatactttg gtctctaaaa ataacaaat ggaccataac attttttttc ttacaagttt 240
 gaagtgggtc aattatgggg gaaacacata cattcctaag gggaaat 287

<210> 1482
 <211> 574
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1482
 cttagagaaaa ctttattgat ggttgaaaac aaaataaaat acacataagg ttcccttccc 60
 atctctaata tggaaaataa aacacttaat atgaatactc agttttaaac tttgctctaa 120
 gttttatttt attttatttt gagatggagt cttgctattg cccaagctgg agtgcagtgg 180
 cgagatcttg gctcactgca acctccgcct cccagggttca agcgattctc ctgtctcagc 240
 ctcccagagta cctgggacta caggcacctg ccaccatgca gggctaattt ttgtattttt 300
 agtagagatg gggcttcacc atattggtaa ggctgggtctc gaacttctgg acctcagggtg 360
 atcttacctc cctcagcctc ccaaagtgtc gggattacag gcatgagcca ccacccccgg 420
 caactttttt aatttatatt ttatttttta ttgaaatagg tggggccaaa cttgggtggaa 480
 acagaactca tgctgaagga cgacattaat cataataatt taaagagaca gatattgctt 540
 atgtaacccg tatnaagaat ttaaaaccaa tcca 574

<210> 1483
 <211> 486
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> n=a,t,g or c

<400> 1483

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accctgagat agaatagatt tattagcaag aggtaatcag gaaacatata tttttacaaa      60
aatggaaatt tttttccaaa caagctgtaa gttgaaatat tttaggactt gaaatagaat      120
tctcatacca ctaggtattg cttacagcaa aagttgtctg tctgttgtag tggagcatgc      180
ctgccacttc ggagttaacc tgtgttttct atactgtaca gtgtaaaaaa tacatggtaa      240
tattcacaga ataagcacta cattactata ttctgtctag aaggcattta gacaggacta      300
cagtatatgc cataaaaaca cttgggttatt ggattttccc taattcctac agtgtgggta      360
ctaaattatc caccaaggta tacnggactt aagagccatc ctcaatggta aggcctggta      420
agtgaccctg tangcagcct taaagangga aaaagtgaca tttttggggg tccccgactt      480
tcagtg                                     486
```

<210> 1484

<211> 282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> n=a,t,g or c

<400> 1484

```
ttcgggtgtt gtgtctttat ttggagacca ggagacagat tacagcttaa tgagaggaac      60
aacgactaag tgatctgatg ggaagggtga gtttcttgcc ccttaggaag caacagatgt      120
gatttctaata caacaaaaaac tagtaagtct ggaacttttc agacaggaag ctgagaggct      180
accaaaacta aaagtgaag tgtctgccat caatgtgtaa gtctaaatta cnaataaata      240
cattaataaa gccccnaaca ggggggtacaa aaatttgtaa tg                                     282
```

<210> 1485

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> n=a,t,g or c

<400> 1485

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tcaaagtta atattttcac tttattatta catctaccaa gcttagtgga aggacagggc      60
taggggaaat agagggtaaa cctcaataag aaatagtatt ttaagccagg tgtgggtggca      120
catgcctgta atcccaggta cttaggaggc tgaggcagga ggatctcttg agctctggag      180
tttgagacca gcctgggcaa catagtgaga ccttgtctca aaaaaagaaa agnaaagaaa      240
agaaatatta atagtatttt agttgggcag tgaaaatggg agaatatcaa tagacatttg      300
aaaaagaggg aagagcttca gcaaaggcca ggggagagaa aagccagtgg tgaatattag      360
gggctggcat acaactctaa ttgtgggagg gaaga                                     395
```

<210> 1486

<211> 472

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<223> n=a,t,g or c

<400> 1486

```
tttttttttt tttttttttc agttgaaaca tacaacttta ttgatgatac acaaatgaag      60
```

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| tctttggtgg | ataaattcaa | gtcaaaacaa | ataatagaac | agtaggccat | tcataatgga | 120 |
| caggtttact | gtcaattcag | aagaaccagt | aaaaatattt | ctatccaagc | agcacgatta | 180 |
| aagtcacaaa | tatgttttca | gtacaagagg | tctattttatt | tggtattcat | aaaatgggttc | 240 |
| agcttaaagc | tggtgactgt | cacagataac | atcactctgg | atgatacatt | attcaacact | 300 |
| ggcagctgaa | aggatccctt | tactatatga | gcaagtggaa | aagcagtaac | tttcaatttt | 360 |
| caacgcttcc | acactgcaaa | atcatgaaat | ttcttcaagt | cttttgacgg | tacataacca | 420 |
| atcagaattt | ggttcactag | ttttataact | ttcactttca | ctaagagggc | nt | 472 |

<210> 1487
 <211> 337
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1487 | | | | | | |
| ataattcatg | acaggtttaa | tcaggtaatt | ccaggaggga | aaaaaacat | taaaacaaat | 60 |
| tcttatgata | atcatctgct | atgtccaatt | acacgggtat | gaagtaacag | aatgggttac | 120 |
| aaacttatta | tgtattattt | acattatata | ctcaaaacta | tcaagctagt | taactatata | 180 |
| tgaggagaca | cattatgaca | tgagttaaac | agtttttcat | tggttcattag | aaagaatgca | 240 |
| gtcaagcttt | taatggaaat | aatatacaag | tgaggcactt | ttgaggtcag | aaatagaaag | 300 |
| caaacgacac | tacacactgg | aatgttcac | aaaaatc | | | 337 |

<210> 1488
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 1488 | | | | | | |
| cccgcacaaag | atgcctttat | tgggcgacag | acgcgggggtg | gggcgctang | ggnggtgcac | 60 |
| ggcgggccgg | tacgcagnga | tnctcggcgc | tgtgnganca | cgtgtatttg | aactctttct | 120 |
| cctgcatcgc | gctgtccagg | tagcggcgta | cgcgangctc | cgcggggatg | ggcgccctggc | 180 |
| ggaagtgcgc | gcacaccgtg | tcgacgatgt | gcagcttggg | caggaggctg | cagtcggcca | 240 |
| gcgtganctg | tcgccgtcca | ggaagcggcg | gcngactcgc | cgcantgcgg | ctcccccgcc | 300 |
| agctcgtgct | ccaggggcgc | gcgcaggtag | ctgtccagcc | tggcgagggc | gcgcaagctg | 360 |
| ctggtacagg | gcttcgtcct | gcgcgggcac | gggttcttga | tgaacgcgga | gaattgtgga | 420 |
| aaacgtcgtt | gccggcgggtg | ttggactcct | gtaagagcgc | cagctgggga | atcggcggcc | 480 |
| caangtctct | caggaatcng | atttnaacgt | | | | 510 |

<210> 1489
 <211> 503
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1489 | | | | | | |
| tttttgctc | atcaaaattt | attaagttgt | acatatacag | tatattatca | gaacaacacc | 60 |
| aaagtggcta | cacttgacag | atttccttaa | agtggacata | attttcctag | agattattat | 120 |
| tccccttgat | aaaagttgta | atgattgtga | aagctttgaa | agacaagctt | gaagggccac | 180 |
| agcattgact | atcagggcaa | ggagctatag | atgccatgca | cgcaggggccc | agaaggcagc | 240 |
| agagccgcag | gaggctgtgg | cagccccgtt | tctgctgtga | gcaaacagtg | ctatgaggag | 300 |
| accaacacaa | agaggaaggt | gcttcctctc | caggggtagg | gtctttgggt | tcacattcag | 360 |
| aaacacaaga | caccacacc | aagagaagaa | aggaaaacaa | antccctaca | gggtctgggc | 420 |

tncctccaag agacggggcc agtgtgccaa aagaggggcac gagttgagat gtggaagttt 480
ctggtgaggn acccattcct tca 503

<210> 1490
<211> 347
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1490
ttttttgttg acacaaaatc tttttattcc ccantttgcc atcttttcca caaacctctc 60
anggtacaaa tcnggangaa ngtgcatata aaccctgcct tatttaacca ggcccaccgc 120
ctccgggaca gcccttgggg agggcccatc ccgctaagta tgaagggaag gccacaccaa 180
agtgtgagt gagccacca gacagcaggt gntntgggag ggaggggcaa caaggggtag 240
gggaaggntt cctggaggag ggagaggctg gccctgagag acagggggcg gtcctgaaaa 300
ggagagagaa ggcacanttt tccgggaacc aggncccagc accttag 347

<210> 1491
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1491
tttttttttt ttttttggcc caaagtaaac atgtttattc tcagttctgc cttaggggtc 60
tctagttttg caagcatgag taaatggant caacaataat cctctcctta aatgtctggc 120
attaaaattt gtcacttaag aagtttctctg ttttgcctaa agagagtntg atttgagggt 180
gacctgaaac aaggcttgag gcttntggac acatagggtt aatcgcctta tttcctgcca 240
aatcgcagag cagtgaaagg ccaaagga 268

<210> 1492
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1492
tttttttttt ntacaaggag ctttccactt gcttcagcat gcttaatcct cacatcaacc 60
ctgcttaggg gacacaagct cagacagagg aagtgactta tccagagtca cacaggcaga 120
aaccaggac tgaagccaca gcctttcacc acatccagct gtctttccat gaggggtagg 180
ggcagatccc ccgagctgga gcctccaggg cagccctcgc tcagggcagc actgtggtga 240
cgctggtgag caccacatgc tcagagattt tgggagatgg agcatcggct ctgcaaggga 300
caaggacttg tgggctgggc anaggagcgg gggactaggg ggcctttcag aggagccgca 360
gggacccggg ncagggcagg caggcaggga gaaggcagcc tttaaactgc tccccggat 420
tttttccc 428

<210> 1493
<211> 254
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1493
 tttttttttt tttttttttt tttttttttt ttattgccaa ganccaaaga aaaaatttta 60
 ttacaatag agaattttat ttgaaacatg catttcttgt ttttttaaaa acaaatcagc 120
 aaatgcagat caagtttaca ctccttaagg caagagtccc tatgcacgct gtacatgttc 180
 atattaaatc caaaagctgc tcacccgggg aacttgtgta caaagggcaa ggccaaggtc 240
 agcaatgtgt cttt 254

<210> 1494
 <211> 380
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1494
 catacttacc agcngttttt tattttaata tttttccng ttatatgtaa tatacataac 60
 ttcaaagcac atccgtacaa acctcctaca agctgcacct tcataatgag aaaccataag 120
 catacaatgt ctacttcctt tcctgtggct tcgttttctg ttcttgcttt ctttnctttt 180
 tctcatttca aaggagagtc atctgcagtg gccctcagaa ggaccaggnc acagaggggtg 240
 aaggggtgtgg ggtnggggaa gggggaaggg ggaggaggga gccgagacag aaaatgacag 300
 caagacattg agagttgagg gtgagggggag gcgggagaga ggaaggtagg ttttgcagcc 360
 cantttcaag atccagaaag 380

<210> 1495
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1495
 taganaattn nctgtaggtg ttcctttatt ttatcaaaaa tagtaatttt gtataattnt 60
 aaatcaggaa atctaagggg acatgttacc caatcacaaac agctaataaa atgcctccca 120
 ttacagaccc agctttttta atattcaata acattcacag aattggcaag ttagtctcca 180
 aaaaattcta acagaaactg caactcaaaa agtgtgtcta tatcagagat ggtggtaact 240
 tcctcaaaga agttacatgc aaatnccag ggggtctcatg gtttacaagg tgac 294

<210> 1496
 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1496
 acgggggagag tgaggaggaa agaggaaagg aaggccaggg tgggaggaag gancagctaa 60
 anctgaggga agaagaagga aaggagaggg actattncat agcagatgca aatgaaggga 120
 cttgggggcta gtcaggaaga aagggaaggg gaaggaaggc aagagagagg ggtgaaggg 179

<210> 1497
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1497
aatgtagtca taggggactg aggagcaagg gtggccttga agaggcaaan ggaatgtcca 60
tttgctgagt ttcccttcct tatgtctcca gtctgggtgcc aggtagtgga gtaaaaaagg 120
agacagttta tttttttatt ctatgtgcac acttacagta tacatatata tttatatcac 180
aatttacgaa accaaaaagt tgagtttcca atggaaccct tgttttttta taatcgactt 240
tttaaagtgt atcaggacta taatattgta cagttattat agggcctttg gggaagggga 300
ggatagcgag aagatgctct gggggggttt gtttttgctt ttccttcagg gttttatttt 360
tgactgtttt gttttcttgt tggccatttc tgtattgctg ggcattctgt ctaagccttt 420
acagtgggca aaaataatga catgtaggca aaggattttc aaacccaaat attttttccc 480
cttttggtaa aaanaactcc gtgcccgaat tcttgggcct cgagggccaa attc 534

<210> 1498
<211> 351
<212> DNA
<213> Homo sapiens

<400> 1498
tttttttaga tgagaattta agctttttatt aataaatcat gatttttctat tgaatacata 60
ataaagtaca attaacaata acataacatt acaacattaa aaattaaaac tttcagaatc 120
accttgatca atatataaag ctttagttcc ttattttcaac agtgttcttc tcatatgcaa 180
aacagcttcc caaaataaga gattcgtgaa tgaaatttta taaagcttcc tgtgtaccaa 240
agagattgac tccacatcaa ctgtccccta ctgaaaatcc aaaccataca ggcttgaagg 300
accagaactg agccacattc tattaaagtt atcaaagata aaatcttaaa g 351

<210> 1499
<211> 341
<212> DNA
<213> Homo sapiens

<400> 1499
tttttttttt accccagagt atttttatta gggattcctg ccacatatt aacatataaa 60
acaatctgga tgttgacata gaaatgcaa tttcactata caaaggtaag gctccaatca 120
cagtaacatg gccccatat ctctagtatt tcaatgaaat aaactcattg tgaattcacc 180
ccgagttgtg ttataaata ttagacaaac cacaaaatat attccaaata cataacattt 240
tacaatattt ttcaagcaca gacaaatata tactttactt tacctacatt gttttcatga 300
tccaacttgc attagcacta aaggcaatat tgtgtgtgta t 341

<210> 1500
<211> 380
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1500
atgataaagt tgatttaagt aatgcaactg actacataaa ccaatatagc cgtatgcatc 60
agaatctgga gcaagctctt acagatgact ggagacgcac ccagtgtggt gctgcctgag 120
accaaagtcc atcccacgac aagggcctcc tgcttcatga gaacacttac cgtcattcga 180
atctctttga gattaatgtg ataatagaca ctatacattg catatgcact gggcctcagc 240
agatccttcc aacttttcaa agtgaaaaag gacaaacgta agtgaangttt ttaaagaggt 300
ggcgctcatc cgatttttcc cgctgtcctg tgtgcagggt ctgctgaaca cgcacctccc 360
aatcagtatg ttctgagagg 380

<210> 1501
<211> 212

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1501
tccttttaaat atgaggaggt ctggtgtgaa gacagatcaa gcatgggtac ctggcttgaa 60
cattgtccat taagaaaatg tatcagtctc cgcatagcac cagtcaaggg tcaaggaaaa 120
tgcccctgac ttgcntgtgt tctcagagtg tcttcgcagc acagtttntg aaattcaaat 180
agtngttttg agacaaaaat nccgccaggt ac 212

<210> 1502
<211> 189
<212> DNA
<213> Homo sapiens

<400> 1502
aagaaaaata actttgttat taatcatata caatcataac aaaagtacat catagtatca 60
catccataat tgcttgaatg ctaacttgac tgttacatgg acctgttaca aataatgaac 120
aacagagcta ctccagtata tgactagtca ctgtgaaata aaaacagacc catggcacac 180
atggaaatt 189

<210> 1503
<211> 292
<212> DNA
<213> Homo sapiens

<400> 1503
tgaaaaataat gatgctttat ttgattgaca tcacatcatc ataaatggca tctaatttca 60
gaaaacaaag ttcaagtcgc caaaaaatgc atgtacaaat ctaaggagat aggtctacag 120
aaatagacac gtggctctgt ggtctgtaag gtcgcagtc ggaacctcac atcctagggg 180
ctgtctgggt tcaatgttcc agtggcgtga gacaaccaag gaaacagaca ccccaaagag 240
ccgatgttat ttttgaatat atatatatgt atatacatgt acatatgtaa at 292

<210> 1504
<211> 364
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1504
gtttttaaac atttctttat tagtatatag acagtaaagc atgaaataga taaaaacatt 60
acttataaaa atgttttgaa agaacatttg aaaaatagat gaatgtcttc tagccagtta 120
atagcagaga aagaatttag ttttggtagc tcataagtca gtaaccgtat gccatgtctc 180
cagaagtaaa atccgtctgt tttccagaaa aatgtgatgt agngaattnt cattttatgt 240
gttattttgc actcattaat gtaaatttta gatttaaaaa aatcaagttt atttgctttc 300
taagaaaatg gnctccttnc ccattcgcca gtagnttaat atatgttcta cgggtgtgggt 360
gtgt 364

<210> 1505
<211> 406
<212> DNA
<213> Homo sapiens

<400> 1505
tttttaagag tatacaagtt tattttaagg tgttcatagg gttaccagtt ggatagggtca 60
taataatata tagagatatg ggaaattaag acctatgaag ttttaattat ttgcataaga 120
gtatgccctt gcatcataag aaaacatata aaaacagaaa tatgtttcaa acttgtatat 180

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| aacatatata | tacatgttca | acttgatcag | gttcttactg | aaattattta | tttattttta | 240 |
| ttataacttta | agttctggga | tacatgtgct | gaatgtgcag | gtttgttaca | caggtataca | 300 |
| tgtgccatgg | tactttgctg | cacccatcaa | cccatcatct | acatcaggta | tttctcctaa | 360 |
| tgctatccct | cccctagccc | ccatcccccc | aacaggggccc | cagctc | | 406 |

<210> 1506
 <211> 436
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1506 | | | | | | |
| ctgattcaat | gctgtatggt | ttattggagt | ttaacatgcc | tacatagtaa | atacttggtta | 60 |
| aatgtgctga | atgaccaa | gattcccaag | atgagctagt | cagctgaaag | tccaaacatg | 120 |
| gggacttggg | ctggtaagca | cctaggcttt | gaatcaaaca | gctacatctg | aaagttttat | 180 |
| gttagaataa | taacgccatg | tattacattt | ctgtgcaata | agtgaacca | tctctagctc | 240 |
| ctctccccac | cataatcaca | gcagtcagat | aaaaagttga | ggagtttatt | agggaaatat | 300 |
| gagaggcata | gacactccaa | gtgacagaaa | gaaaagtctg | aaaatgtccc | ttcaagccaa | 360 |
| gtgggggcct | ggcnttgacc | tctccaaatc | cacaagaaac | tggtgggtta | gcaacaacat | 420 |
| tctctggcgg | cacatt | | | | | 436 |

<210> 1507
 <211> 412
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1507 | | | | | | |
| gaagattaaa | cttcctcaca | gattttgata | atgactttgg | aaatgatgac | tgaaatat | 60 |
| ccctctgctt | tcttcctacc | tttgggcaac | gtcccggagt | gtaaatctag | ctgatattgc | 120 |
| aagggtttgc | tttatttgat | gaaccagcct | atattaatga | cataacttcc | aaggtaacaca | 180 |
| gaatctaata | ctaacggtgc | aataatttat | tggtataatt | tctacctcca | aaggtaagta | 240 |
| acacaaatgt | ttcaggatta | cagtatatat | tatcaaacta | gtgtctttgc | attaaaaaca | 300 |
| aattatagct | cagagataga | gcttgctgtg | atgttttagt | tctgaaatgc | attaaattta | 360 |
| tccctcagtc | ttagaagacc | gtgtgtctca | aattgggcat | gtcctgcact | tt | 412 |

<210> 1508
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|-------------|------------|------------|--------------|-----|
| <400> 1508 | | | | | | |
| gctaataaaa | cagttaagac | aattgtccat | tttatttggt | aaattgctaa | aaagtcacatca | 60 |
| ggggaaaaca | ttacaaaaa | atgaaattga | cagatttaaa | tatcaatgaa | atccatgttt | 120 |
| cattcctaca | ctgttatgtg | cccaaaatga | ctatctcagg | gtaagccacc | tggcatccct | 180 |
| gagttgtatg | ggaaacatca | ctcacagcac | cagcttcgcc | agggcacatg | gggtgtgcac | 240 |
| tgacatgaac | cctggttggn | gggagggggag | cagagcaagt | agagtgtaca | atggagccaa | 300 |
| cacctaaagt | ttgctctcat | ttgacaatga | acacggtgag | agggagccac | ttactggtaa | 360 |
| ccatgcagaa | catgccttct | gcagttcatg | gagaggctac | atgggacgca | ggcctggaaa | 420 |
| ttcagcttcc | tcaccaccag | gcgtgggttag | atcctccac | tgacttgtgc | gctggtaaga | 480 |
| gancatggat | aatgcaagtg | gagcatatca | catgc | | | 515 |

<210> 1509
 <211> 382
 <212> DNA
 <213> Homo sapiens

<400> 1509
 ttttttttggg tttaaaaata gctttattta gcataccaaa aacacagaaa cataagaaag 60
 accctaccta gtataaacat aaaaatagtt aaataccata atttaagtga aaccaagcat 120
 cttaaaatga gaaatattat aataaaatac atactattta cacagaacca agttaagct 180
 acctccacag ttattggatc acatcatcaa tcttgaagtc atcattaaaa atgaagcaaa 240
 cacaacatat ctatctgtac tggatcaatag gaaaagaaga aatcattaca ttacttttaa 300
 ggaagtataa ttttttgtga catttagagc aaggaggcag aaagtgccaa ttctaggatt 360
 ccagacacaa ctactgcaca tg 382

<210> 1510
 <211> 188
 <212> DNA
 <213> Homo sapiens

<400> 1510
 gcaataaata aaacttttat tcaaacaagt aactgcagta cagggcaciaa ttcagatttt 60
 ttaaaaaaaa ggaaaggaaa caggaaaaaa atatgttcag cactttacat cttcatacaa 120
 gtgttgctgt tttgtgtcta cattcatcca ttgagcatgg aatcccctgg atttgaaatc 180
 tttagcgg 188

<210> 1511
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 1511
 atttgtttgg gagattccca gctagtttca gacttggctt gtgaaggagg cacactatth 60
 tgcttggtat ttgacttgga tttatctgtc tctttagtagta ttggcggcac ttgggaagag 120
 ctcttgtagc aatcactttt tgataagatt acagatggct cggtagaagt agcaggtgga 180
 agagtcttga taggctggct atttttgacg agtacttcgg ctggatcact agtgcttatg 240
 gtcttcaagg aaaaagcttt ttctgtttt ggacggggtt tagaggtatt cact 294

<210> 1512
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 1512
 gtttttagttc agtttattht ttaatatgtc ctgagttctt tctgttcata aaattatgat 60
 cttatgacag ctgtaacttt taattaataa tattaacaaa tcattattga tataggcttt 120
 tcaatttgct caagattagg aattgtaagt ggaatgaagc agcacttcca gttgacaaat 180
 ggatccaaag gtaatccaat gtctttttaa ttaagcttgt gacaattaaa ccaatacact 240
 gtagcaatga gaaaactatt gacaaagtat aaccagggaa tattcatctc aatatatgc 299

<210> 1513
 <211> 239
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1513
 ctaaagtctt taattttttg tcacaaatat ttctgcatct ctcagtcctt tcttgttgga 60
 aaaaggaggg ctagtgtatc atttgttaat ggcactttta aaangtgctt tggtatatag 120
 aggnaacaat gtacttcnna ggnatgttaa taataaatta aggttataat ggttgccata 180
 tcngagngaa tgnataagat tagtctcagc aaaaacaaaa attagtttgg aagtagata 239

<210> 1514
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1514
 ctgttgtttg ttcaccttta tttgtgaagt gctatgccct tggtttttcc acttagttat 60
 taacatgaat tagcaagtca aaaaacattt actaaccac aaatacaaaa catttactag 120
 ggtttccagt acttatttga atgaattatt agtttaggag gttaaagatg gtaggaaaag 180
 tgtgtaatct gcgtgtcttc tgtataccna ataataaaat atgtngtgaa tctggtttta 240
 ggtctagcac actgtttttt ttttaaagca gaaatagggg gtttatttga tactagaact 300
 aaagaaataa ggnagtttga tgccaaaaca nnttgttaat tcttttt 347

<210> 1515
 <211> 260
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1515
 ttttttatga ttgtaaaaat tttattctca ataacaattc cactaaaatt atacaaagta 60
 cattcaatac ttaagaatgg caaagggtggg gagaggagga gaggaagcca gtttggcctg 120
 gaagcatcaa cagttgactc caacaaagga agcccagctg ggctgggagg aagttggggg 180
 tggaggtccg gttgtaaaaa ataaaaaagg ggatcggtaa aaaaaggcca cccacaagga 240
 agcagagtga gcgtgcatgt 260

<210> 1516
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 1516
 ctgtgagaga ttttatttta tcacctccaa aatgatgttt gcaactgcttt tgccagcctg 60
 gtgaaagaca gcccgccac aagcagaact gaggtctctc ggtgtctcta tgtattaatg 120
 ttgcggacac cacataggaa gagagagtgt tgatgggacc cacaggagtt gcaattaagc 180
 acgttgtcag ggctacacgc tctgcccttt ctctgctggg ag 222

<210> 1517
 <211> 614
 <212> DNA
 <213> Homo sapiens

<400> 1517
 taaaatgtga aaggagttct ttttaatacc cagggttaata caatatccaa gatataacat 60
 taagtgataa aaaacaaagt gtatgacagt atagatgaca tcctacttat attttttgaa 120
 gcccgcagat tttatatgta tgtttgtgct ttacatgcct agagtatctc tggcagtgtg 180
 tgtaagaaat ggatcaaac agttgcctcc agggagaggt aatgggtgcc ggagaagaga 240
 gggaggctta ggttttccac tagataccta tttgcgcttt ttaaattttg caccatgtat 300
 gtattaagca ttaaaaataa ctgagtttaa attaacagaa aagaaaagaa aaccagtgta 360
 gcctatgaag tgttgattct cattttggtt tcttttttct ttttttttaa gatgaagatt 420
 aagtttgttt tattttattct tgattcctct tttgcctttc aaagtcattg tcatatatta 480
 agtaggagat tccaggttct aaagtaaaat atcgaaactga gatgacagca ttagaaaacc 540
 aggcccagga cctgggattc tgggctgaga caaagaactc aatcccaaaa cacaattttc 600

614

```
<210> 1518
<211> 400
<212> DNA
<213> Homo sapiens
```

| | | | | | | | |
|------------|----------|----------|----------|-----------|-----------|------------|-----|
| <400> | 1518 | | | | | | |
| caggattcca | gattttat | tttagaag | at | tgaaaaaca | caccaggac | aacatttctt | 60 |
| tgatcaataa | actttcag | ga | aatggagg | aa | gctgtttt | gg | 120 |
| acttgaactt | ggaaatag | gg | ttttgaca | at | ccaactat | gg | 180 |
| ttttaaatga | aacctcac | cc | cccaaact | g | ttcaagt | ggc | 240 |
| aattatatgc | caacacac | ct | tttaaaaa | c | aacaacag | ca | 300 |
| tgaggatttc | cttagctc | ct | ccaggaag | tg | tgtaacac | tg | 360 |
| gcggatcagg | gacctgtc | ac | gcgtcagg | at | agttgcag | ta | 400 |

```
<210> 1519
<211> 399
<212> DNA
<213> Homo sapiens
```

| | | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|--|-----|
| <400> | 1519 | | | | | | |
| ctttttttttt | tttttgaatc | tctacaagta | taatgtagat | caaaagaagc | tgacacaaaa | | 60 |
| gattgcatat | tgattgatta | catttatata | aagtataaaa | acagacaaaa | ttaatctatg | | 120 |
| gtattaaaag | tcaggttgcc | tttgtaagg | atagtgacaa | gagaagactt | ctgagatctg | | 180 |
| gaaatgttct | atttcttttt | ctttttttct | tttagagaca | gggtcttact | ctgttgctta | | 240 |
| ggctggagta | caggatgcaa | tgggtgcaatt | gttttatattg | ttgatctgga | tggcatatgt | | 300 |
| tcccatgcat | gagtgtgtcc | acatgtgaaa | attcactaag | cttaccattt | gtgtactttc | | 360 |
| ctatatgtat | actccaacaa | aaaaaaagttt | gtataaatt | | | | 399 |

```
<210> 1520
<211> 245
<212> DNA
<213> Homo sapiens
```

| | | | | | | | |
|------------|-------------|------------|------------|------------|------------|--|-----|
| <400> | 1520 | | | | | | |
| gaaacaaact | ttaattccca | agccggaccc | ttaagtcaca | aggaacgtca | gatccggctc | | 60 |
| actccctgac | aggggtgaatt | ggaaactggc | ccctacttgg | tctctaacc | cttccactgg | | 120 |
| gtctagtggg | gactctgacg | ccgaacaggg | gctgtagatc | agtgagtgtg | tatgtgtgtg | | 180 |
| tggaggggca | gcaggggccg | ctttccacgt | ggttacataa | gcacgtgttg | gggttggggc | | 240 |
| ggtgt | | | | | | | 245 |

```
<210> 1521
<211> 361
<212> DNA
<213> Homo sapiens
```

| | | | | | | | |
|-------------|------------|------------|------------|------------|-------------|--|-----|
| <400> | 1521 | | | | | | |
| tttggggtag | tatattaact | ttattttgaa | ttattatata | acatggaata | tgtcatcaaa | | 60 |
| gaatgaatta | atgaaaaacg | tttgtagttc | agttaagcag | atgatttgca | taggaattgc | | 120 |
| tagttttaag | tcttaggatg | cggacgtaac | tgaattgtca | attagattaa | catagaataa | | 180 |
| tcattttacat | gtgtgcaaac | taaaatgcaa | ttttgaaaat | aacacacctt | tccgtacagt | | 240 |
| cttttggtagg | tgatgattca | ttttccctgc | tatgggtaat | ctcatctaga | tcaaagtgtga | | 300 |
| tccttctaag | ctagacacct | cttccctaca | gtaagaaggc | ctccatattg | ttcaagctac | | 360 |
| t | | | | | | | 361 |

```
<210> 1522
<211> 394
<212> DNA
<213> Homo sapiens
```


<400> 1522
gcttctgga gctttgttct ttaatgagcc atggggtgat ttgttcatca agctgctttt 60
gtgtagccat acagtgcata ttttgagtga cacaaactgc actttataca gatggtatct 120
tgttaccct caacccccca gcaagaaaa aaaaacaaaa aggaaattac aaagtgccta 180
ttgattgcat ccggaatgta atcagttccg tgggtgagat aaatcattct tcttatagaa 240
ttattctatt aaacagtaaa atgttatatt tcacaggata tggtcctttt ataatacagt 300
ttttaaaaaa aatttacact cagcatactt ataaattact taaaatccat taaaataata 360
taatacgaat ctgtagtcca cacctttccc atag 394

<210> 1523
<211> 327
<212> DNA
<213> Homo sapiens

<400> 1523
ataggtatat atatataattt ttgctttgg aaggagaaa ctcatatcat tttttgcaat 60
cataaaaata agcaaaaata aataaaaaca ttcatgctc attaaacaaa ttttagccaa 120
tagagaatag tggaaaacca aacagccaaa atcttatcaa taaaaccacc tctgtttagt 180
attttgagag aattattatt atatttttgg agatggggtt tcactatggt gcttaggctg 240
gacttcaact cctgggctca agcgatcctc ttgcatcagc ctcttgagtg gctgggggta 300
taagtgtgca tcattgcacc tgccttt 327

<210> 1524
<211> 318
<212> DNA
<213> Homo sapiens

<400> 1524
ttttttctga aatcattctt ttatttttga cacacatagc tgctatttac tgaacactgg 60
aaattcatga atgcgttaca tatttaaact ttcatagaag gtcagatca acaaagcaaa 120
acttctacag ataataagta gttgtgtatg cttgtcactc ttgggcccac cagcacctgt 180
tccctatcat attgctgaac tctgcaaact ccagaaagga aggtttcttt tccaaacttc 240
agagaagctg cagatcaaga atttgggccc ttgcatctga ttagaaactc tcttcttcca 300
gtgtgagaac gttggatt 318

<210> 1525
<211> 294
<212> DNA
<213> Homo sapiens

<400> 1525
tttataaaga ttttaatttat ttaaatacaca taagattatt caaagccata ggcattgatta 60
agtctctata gaatcaagaa gattttctgt gtggagaata tctcgtggag atttgaaatg 120
tgtcgctct cctgagcagc caggattaac tctgcttagg acgtttcaga taagggtcag 180
gctggcgctc ttctttctgc ctccatgggt tgccacctt tgctatgtca ggggggtcgc 240
ttgcttaaga cgttgcaagg agcaccctaa atgccaggct tcccaccata gctg 294

<210> 1526
<211> 449
<212> DNA
<213> Homo sapiens

<400> 1526
tttttttttt tttttttttt accaccaaatt ggaaaagtca ttttaattcaa aaatcatagc 60
tccactcatt tcatagggat tgtcacataa accaaccaca tgtaagaaag ccaagtttca 120
gaggcctctg aacagaaatt ttgttttctt tatagatata tttggtgaca caaaagcatt 180
ttttaaaagc ctgaacatgg caacagggt actaacaggg acaaaggtct attctagtca 240
cagattactt tctaattaca gcattggatt ctatgcacga gtcaatagtc aatactgaag 300

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tttagaacag | tgcgttattt | taaaagaaaa | cattaaagtg | ccatttaata | agtactttat | 360 |
| tgatattata | tcacacagca | ctttacagta | tactcaaaga | tagcctaaat | tatgaattaa | 420 |
| acatgcaaat | attttctttt | cctaaatgg | | | | 449 |

<210> 1527
 <211> 416
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1527 | | | | | | |
| agtatgtaca | ttcctcttta | tttaatacaa | caacaaacac | gtaacatata | caaaaagaaa | 60 |
| aaacactcat | taaaaggccc | tgtcacaaag | gatagacagg | aaacatctac | actgaatcaa | 120 |
| ataaggctct | tgcttcaaaa | acaggggttt | gctagctaca | cctggaatat | gagcaaggct | 180 |
| gttgcaaaaa | aattaaaaaa | aaaaaaaaaa | cacaaaaatc | cctgcactga | aggagtatat | 240 |
| tcatgggggt | aatttactaa | attcacaggt | ccatatttag | gaatgtttat | gccctctcac | 300 |
| atatccaaaa | ttcatcaggg | ttttatgaaa | tgtgtgattt | ttttttgggt | aaaaaaatth | 360 |
| acctgccctt | cttttttctt | aggaaggagt | gataagagct | ttctaaaaac | tagaga | 416 |

<210> 1528
 <211> 208
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 1528 | | | | | | |
| tttttttttt | tttttacaag | acagagaaat | ctactttaat | attcacatgt | aaaagttaca | 60 |
| catcacaaga | gattggacag | tagcttagcg | taacatagct | atagtgaaaa | tcattttttat | 120 |
| aaaaaaataa | tctagatgcg | gtcatcagaa | tttttggtct | gcttaagtta | atgtttgaag | 180 |
| atcgactttt | atccctgctt | gaaggatt | | | | 208 |

<210> 1529
 <211> 434
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 1529 | | | | | | |
| gaataaaaaga | gaaactttat | tttaattcag | catcttagtt | ttaatgtaat | tataaaagtc | 60 |
| acaaaaaatt | gacagaacac | tagaaaacaa | gtaattgcta | aatcaaaata | gaatatcgta | 120 |
| tacttttaat | ctttcatttt | ttttctttca | ggtttttcag | ttgccttctt | tcctagatca | 180 |
| cgtatttcta | tcgttggtcc | ttttttattg | ttcctgtgac | cactggagca | ctagtaataa | 240 |
| atccttaact | caaatagggt | atatttaatt | tcagcaccca | agctccaaat | gcacagcta | 300 |
| aactgggtta | tagcatggag | aatacctcag | acgaccacag | atthttatttt | tgtaagatt | 360 |
| ctatcaagac | tgaggcaaat | tataataaaa | gttctcatat | catagaaaac | aaattacgtg | 420 |
| gaaaaggata | aaca | | | | | 434 |

<210> 1530
 <211> 403
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 1530 | | | | | | |
| tgctcattha | ctgtttttta | tatgtagtca | aatatgacag | cagtcttaca | caaataagctc | 60 |
| cctcctcccc | cttctaaaaat | cccaaatttg | ttgactccta | ctgtaagtga | aaaacatggg | 120 |
| ttgcttctga | aaatagcaat | caacagcaaa | aacacaggta | acatttggtc | cccaccagct | 180 |
| tccacacctt | taaagataaa | ttgtgtcact | gaggcagtca | atacactaaa | tttcttatca | 240 |
| aactattact | aggggaaaaa | aatcagattt | cccacacact | gtaagcagaa | ccgaaagagc | 300 |
| tgagagaaaa | cttggtttta | gaagctgtgt | gaagaaaaca | ttaatgactt | attgcaattg | 360 |
| taataatccc | caggtaaaag | atggatgtca | aattaatgga | ctg | | 403 |

<210> 1531

<211> 383
 <212> DNA
 <213> Homo sapiens

<400> 1531
 tttttttttt tttctgtggt agtcttttatt attatttttt agctattgat acatagcatg 60
 gcagcaagat tacatcagta atgtaataata atacagcttt tttcattgaa gctttgtacc 120
 ttactatact ctaggctatt tggagtgttc cccacttgc actaaagtac aactatgatg 180
 tctctactgc ctctcccagt gaaatataaa aatattgcac tacattacag atatagttta 240
 caaatgtcat tagcagcatt actgagcttt ctataattgt ggtctacaga gttaaatact 300
 tttaaaacat gagtagattc ttataaaacc aaagttttgc attatttcaa cagctctttc 360
 aaatgcatca gtttcagcaa cat 383

<210> 1532
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 1532
 tttttaaagt tacaattcag tgatttttat aatattcaca gagttgtgca accatcacca 60
 caatcaattt ggtgttttat ttactttatt aaaatacagt agagatgagg tctcattgta 120
 ttgtccaggt tgggtctcgaa ctcttgact catgtgatcc tcccacctg gtatttagtt 180
 attttttaga gatgtgatct cccactgtca cccaggctgg agtgtagtgg cccaatcata 240
 gctcattata accttgaatt cctgggctca agtgatcctt ctgcctcagc acactaagta 300
 gctaggacta caggtgcaca ccaccaaacc cagctaattt tg 342

<210> 1533
 <211> 391
 <212> DNA
 <213> Homo sapiens

<400> 1533
 tacactagca tccaaagttt atgaaaaact tccacacact cagtcctcac aacaaccgtg 60
 agggaggttaa ggcagtgatt atgatcccat ttcacagggt gaagacaccg aggctcagag 120
 aggggaaatg actggcccaa ggggacaaga cgcactctaa gatgtcaagt cctggaccct 180
 tccctgcaag gccccctgtg gaaggaaata gctctgctgg acattcagcc actgaagaga 240
 gccccagtc cagaggcttg gagaccactg gaggctctgg cctggtgacc ctgggtctca 300
 agagaaatcc gtgcggagag ggaggggctt ttccattcca ctgatgagga gctcaggctc 360
 ttgggacatc gtggaggtac tgggcaccgc t 391

<210> 1534
 <211> 495
 <212> DNA
 <213> Homo sapiens

<400> 1534
 ggatttgcaa atatttttaat tcacagaaac tcaaggagag ggtgggggtg ggggctgggg 60
 tgggtgtgtg cgccttctt gtctttatcc aggccttctc cagccccgt aagtggcaac 120
 agcattctag agacatgcag tgggtgtgcta gtaccataca cacaacacaa acgacacagc 180
 cagcaacagt ggctgggctg gttgggtggg ggctctgga cctccaagtc tcaggctctg 240
 tcacagagca gggcaggtct ggtccgctca cagggtcctc acagccacgg gatagaggag 300
 ggacaagtgc tcagcccctt tgatgggtag ctttctggtg gtgtagtagt ggatgacttc 360
 cgggacactg tcgaacggag ggctgttctg acccagaacg tatttctctt tggttttggc 420
 cagtttcatg tgcataaaac cctggttgct cctcaggag agggagtagt catgcttgct 480
 ggtctgggct gtccg 495

<210> 1535
 <211> 418
 <212> DNA

<213> Homo sapiens

<400> 1535

ttgagacaga gttttgctct tgttgcccag gctggagtct gtctcaaata aaataaaata 60
aaataaaata aaataaaata ataaaaaatt gtcagccagg cacggtagct gcaactgggt 120
atctttatgt gttaatagct gaagcccaaa ctgtgggatg aaggctattg gctgtctgga 180
gccctgaaca ggtatgagtg gaaataattc ttaacagcat caatgagcaa aatctataac 240
ctatgtaaag ctgctgtctg gttaccaagc acatctttcc gctcaagaac caacttcagg 300
gaaatggcac aaattacaca ggaaaatctt ctctctctgg tgaagaaaca gagaccgccc 360
ttgtagttaa gtgctgaccg cagaactgcc cactactggt tatggtaaag gagctgtc 418

<210> 1536

<211> 408

<212> DNA

<213> Homo sapiens

<400> 1536

ttttgtggaa agacaccttg ctttattact gttattatta gttccatagt ataattcata 60
tatcacaaaa atcaccattt ttaagcatat atttcagtgt cttttaccat attccaaaag 120
ttctgcaacc atcaccacta cctaattcca gaatattttc ataatgcaa aaagcatgcc 180
tgtacctatg ggcagtcact ctccaattcc ccacttcttg cagtctctga caaccactaa 240
tctaccttct ctatatatag atgtacttgt tctgggcact taattcaaca aatggctctg 300
ggacaactaa atatccacat gtaaaagaat caagttagac tccctccttg cacataaaaa 360
ttaactcaaa atggatcaga gacctaagg taggtggtaa aattataa 408

<210> 1537

<211> 372

<212> DNA

<213> Homo sapiens

<400> 1537

tttttttttt tttttttgtt ttcccaaaga atcctgtatt ttaatgaata gctgaataaa 60
tagacattaa ttatgaaatt cacattaaga tagaagaaaa tccaaacatt ctgattgctt 120
tatctcttaa atttgataac tactacaaaa cactactatt atgttagggg aaaaataagc 180
tgactcacag gagtgaact ggggaagtgt ggcagatata tacagtaaca tggaggagcc 240
atacaataaa agcgtttata tgtacatcat tttttttctt tttgtatgga gaaatgctgc 300
cttataaaat cggaaaacac acagtagact acatgcaaca aggaccaata caatgtgcac 360
agcagaagaa tc 372

<210> 1538

<211> 369

<212> DNA

<213> Homo sapiens

<400> 1538

tttttttttt tttttaatta gattgcattt tatttagata aatgaaaatt tgccccaac 60
agaactagga atcaaatatt gtcttggact agaggtaatt gctaagctgg aagcttatat 120
tgaaaactaa aatttccagc ccttgactat ctgtagttcc aaacatcaaa ggaaaatatt 180
ggaacaattt atctatgtac agagagaggc aactcatggg taccataagc aaaataacct 240
gagggggaac atttgatatt acaagaagtgt gtgagagttt acaagtcttg cattgctttc 300
tattgtacat ggctctgtag taatgccaaa aataacaaaa tgtaggcact tgctctggac 360
ttctgcagt 369

<210> 1539

<211> 444

<212> DNA

<213> Homo sapiens

<400> 1539

caaatgtatg amcttgttta agatagccag gmaggcagtgt gtaggataaa cacaagggat 60

```

aggmatgtat caaaaaacag attaacacac acgcacgccc gcacacacac acacacacac 120
acacaaaacc tgtacaaaat gtcccaatca atgagaacag aaaaaagaaa tcttcaacta 180
tgttacagtt taaaagcaga aaaaaaaagt tagggagttt ctccctccca catgtcagga 240
aatgtcatcc aatattctta aagcaaggat aactaaataa aatacatgts cagcatattc 300
tgcaattccg ttacatacag tagttttttt tccaaagcta ttttttttta gtatcggttaa 360
tataaagcag ttgcacaaaa agcaarggtg ttttgcaaac aggtgtatgc atttttcctt 420
tttaggacaw tatctaamaa agmc 444

```

```

<210> 1540
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<223> n=a,t,g or c

```

```

<400> 1540
gatcccaaac tggtcccttt ttcatttctt gaaatgttac cactacagac attttttnaa 60
ggtgaataaa cagttgtnat gtgctgtacc taaaatcatg tttaatcgta taaggaaaca 120
tttcaataca cttatacagg aagaaaacta tagatgaagt acatgtgtgt gattcagtct 180
gattcacaga attctgagag taatatggaa taaaacaact ccacttagat gataactgaa 240
gcatttcctg ccttggtgaaa atttggnttt taaattgctg ttagaatggg naatttggac 300
actttatatac attgtatant tncagacttt agnttctgta tctnttggga accatgggta 360
tagcaaaacc nttggnaata atcctgtttc cnanaccncc cttnatgtaa acctggtatg 420
cttggctggt aacncctaag 440

```

```

<210> 1541
<211> 348
<212> DNA
<213> Homo sapiens

```

```

<400> 1541
ggcaacattt ctytyattca aattttattg gaagtttaca aatgtattac agacatcagt 60
aaaacatcat atccatttya cagggcacgg vtctcaagca aagtgttcag aacagtctct 120
sgcagascca caccaaaggc ctgtybgcag accttcttaa caaatagctt gacactcaac 180
acagaacaca gactctggcc tgccctacct tcccaggccc ttygagggtt tgytatgca 240
cttgvamtga aagcaggaga tggacaaagc aatcctgtgg aggaaagaat gagcttagga 300
gaggaaaacc tgccsaagtc ctaattybgc taaaaaaaat taattaaa 348

```

```

<210> 1542
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<223> n=a,t,g or c

```

```

<400> 1542
taattttcca caaagagctc cagaaggcaa atagtttata acttccccac tctgaaatag 60
cacgcaagac agatgatgca ggggaatggg tgtccactct tncctgttct cagagctcct 120
gcagcaggcc tgantgaccc gcaagcgggg cccatgcagc gtgtcctctg caaagtgcag 180
gtnttcagtc cacacacagc accaccagca ctgctgatgt cacgggtgtc t 231

```

```

<210> 1543
<211> 318
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1543
 catcacagag ttaaaatatt taatgacaaa attagggttt gtngtaatag tgantcaata 60
 gagcagggtgt tacttatctc tgaattaaac aaaaattata tttgacatct cagnngaactt 120
 ctganganta actgtatgac agacatcagt agtgtcacaa tttctaaaat tangngctaa 180
 acctatcttt aatgccccctt atttngagca tcctgtaaat aatttttaaat agatgcacaa 240
 cctttgctag ccacaaaagt agtattaaaa cagttttcac tgtaacttaa gtctaacacg 300
 taatctgaac ttcttcag 318

<210> 1544
 <211> 263
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1544
 ggcagaaaat agactttatt ccaagacaga tttgtaaaag aatgttttta aagggaaagg 60
 caagtcacgc tactaaatca aacattgttc acaatttctg gntcttcctc ctccgcctgg 120
 cactacagct gagccttggc ggatatgcct cggggcctcg gcgcagagga acttagcctc 180
 gattctnttc ctgaggggct tcttaacttt tccaagccag gcagtnagcg tgggtgggagg 240
 cttgggctgg tgcctcgga gct 263

<210> 1545
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1545
 tttttttttt tttcacgtgg aatggtgttt tcattggtgt tagttggggg aagagggttaa 60
 tggttacaga gccagggcct gggcaatggg gtcaggntct ccctgccctc agnggggcag 120
 tcggggctcc tgctgtgggc cgaagcccct ccccatgtgt gtcctctcag gcagttgata 180
 gaataaattc catttaaaat atatgcattt ctctctgctt agaaaataac atttacaatt 240
 gaaaagttag gacttntggg atctgttaac cccactgcct cccaccctg ctagecctgc 300
 ctgagtgagg gaaggcgggg gcaggagctg cctggggcac caccgctgtg tatttacatg 360
 tcctntgtaa cacctnacgg agaggggggc ccggccagna cacaag 406

<210> 1546
 <211> 319
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1546
 tcttacaatc tcattaagac agtagtagct ttattattat nctattttcca ccaatgagga 60
 aatgagagtt tacagaactt aactcatttg tcatcatcac tcgttcacag gtgatgaagc 120
 aggactagaa tccatgtcta tctagatcca aggccacttt ttttttttaa atagagatgg 180
 ggtctcgccc tgtagcccag ggctggttct cgaactccta gggctcaagt gatcctccac 240
 ctcagncttc tcaaaagtga gagggcatga gccaccacac ccggccaggg ccacactctt 300

cttaaccact acattctag

319

<210> 1547
<211> 290
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1547
ataagangaa atttaattca ataatttgat tcatcactac tggaaaacta catctttctn 60
ccctgtcagt actggatggc aatgacgtga aagcagcttt ccnggggtctc aacttccctt 120
caatgggaag cattatggaa ttccagcagt gaacatcatc tgggttccta ttcaaaccct 180
agctccaagg aaaatgtgag gagagaatct aaggatataa gtnctgttca agggcaagaa 240
ggtttccaat ctcaaattatt tnatggccaa caacttatgg ttataccngc 290

<210> 1548
<211> 443
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1548
ggaattttatt gaaatacagt gtatcataca aatagaatat tcacatgaaa tgatcaaagg 60
aaggggtaag gagaaaagta ttaaaactga aaatttacct agtgaataag tggacataac 120
aattgagaat ctatccactt catgtcactt atggaaacaa cacattaaga ttaaaactaca 180
tgtttgctag agtaggagaa agtatatacc acagggacca tcattactct agagtgggtc 240
tatgcataac tcctcaaaaa gagggccatc gttgggtgtt atgtggctaa aagtgtgtga 300
ttttgggctt ctggagaacc ataaaattgg actcaaagaa tagtttcaaa ggaggtaaaa 360
gaaggaaatg ncgtggacaa ttggaaggac atgggaattn aaatgggntt ggtcncccaa 420
ntggcccctt aggtaaccce gag 443

<210> 1549
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1549
cacaggaaca attctttttat tgtacattgg agaaatagcc ctgtgtgctg gttcaagggtg 60
caacatacag aatattgaat taagaaaaga ggggaacgggg aagggaangg aaacctcttt 120
gaggtccaaa gttgncaaca aaaaatggta aaagatttcc tcacgcaaga nggcattttt 180
gcaaatacca tgcaaaacag gcagctggtg tgccttaaga gaatccctat aaataacaga 240
aaagacactc caagcattcc tgtacgtgga ctcagagcac agagaaaaga aactaaaatg 300
ccttttggat ttcaagatat ttggcactct tgtgattaca tttttttaca gtccattaaa 360
ggggaataaa ctgacataat att 383

<210> 1550
<211> 363
<212> DNA
<213> Homo sapiens

<400> 1550
gagtgttaaa ataattacac ttaatatattt aatagtgtgc tgtgaaatac atagtttttt 60
gttttgtttt ggcaaatgtt tcattttgtt ttaatgactt cgggtccaata taaagaaaat 120

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaaatacagt | gaatagttct | tctttcaaga | tgagctgtat | ttattactgg | aacggaagtt | 180 |
| gtcatatccg | tgatcattag | ctttgaactt | taagcacgac | tgcttttcct | ccaaggactg | 240 |
| tttttcttca | aatgactggc | accagcagca | taaagcatga | cttaaagcag | tttttgaaac | 300 |
| ttttgccac | ccaatacaga | gcaattgggg | ttaatgccgg | gaattccagt | gaaagccagg | 360 |
| ttg | | | | | | 363 |

<210> 1551
 <211> 189
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1551 | taaaggcaca | gctttccag | tgtttggtt | ccttgcttgc | gccctgtttt | aatgttgtag | 60 |
| | ttacaggtgt | ccagcagga | ggaatgcagc | ccctgtgggc | attgggggag | ctgctgggaa | 120 |
| | tccaagttca | aggagcagct | gttttctgtt | ttctgttgcc | ccacagcgcc | anctctgggc | 180 |
| | cccttgggg | | | | | | 189 |

<210> 1552
 <211> 413
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1552 | tgaaaggaaa | aaattcaaag | tttattcaac | attaagaata | acagacagat | aaaggtttgg | 60 |
| | acttaacagc | ataaatacca | ccaatatcat | ggtgtacaat | taaactaacc | tcatgtcaac | 120 |
| | ttgtacctgt | ttaacagatg | cgatctttgt | ggtgttgcca | aaaggataat | ggattattgt | 180 |
| | tatgtttggt | aagggtgtca | aaattaaaga | ctttatgtcg | acttattcac | acacatacac | 240 |
| | acacacacac | atgcacgcac | acacacacac | acacactctt | acacttagcc | tcctgcaaaa | 300 |
| | tgtattgact | ttagttgcta | tatccgattc | ggataaaggc | tttgctcatt | ttttaaatga | 360 |
| | cattattaat | tcagaaaaa | acgtggagga | gaccttggcc | ttggcaggtg | ggg | 413 |

<210> 1553
 <211> 454
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1553 | aacttaaaaa | gcagctagtt | tttatttcct | aggttcgttc | caccagtcac | aaaccagatg | 60 |
| | aaatctatgg | catgattgaa | agactatctc | ctggcactcg | caagattgag | ttatttggac | 120 |
| | gaccacacaa | tgtgcaacc | aactggtaag | gtgaccagag | aacaggctag | tcctcaaggg | 180 |
| | gctattattt | atgattaagg | acagaactta | gtagagcttc | acattgtttt | acactagtcc | 240 |
| | ataaatgagc | ttcacaggat | tcataagcca | cttaagcttg | tatttaaact | gttttatgag | 300 |
| | attctacaaa | tattcattag | aaactcaaca | ggttctagga | ccaaaagca | ctgctcccta | 360 |
| | gggtttctac | tctctttcac | aaccaaggg | atcttctca | gccattctgt | gatgtattgn | 420 |
| | atctggcccc | tgggtgggtt | acgaagntat | ctaa | | | 454 |

<210> 1554
 <211> 163
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> n=a,t,g or c

<400> 1554
tttatggggc gggaaactttt tatttgaagc aagttaatca tagcattgcc cccaggtacc 60
ctggtatcct gctacaagga gcatcacacc atttgggcac atggtgtgcn tcatccacta 120
gcctggcatc tcagcagaca gcagagggca gcagaagctc agc 163

<210> 1555
<211> 231
<212> DNA
<213> Homo sapiens

<400> 1555
tctatttaga tcggatttta ttttgcaata tttattatat attcaattca aatgtactca 60
ctattgtgct aggcaattga aagtaaaaag tataaagctg cattttgctc tctcagtgag 120
gtttaagtca gggaaatgag gcatgcacac aaaataacga gaaagtagta taatagctgt 180
gatcattagt tatcaaaata agtgaatgag ctaataatca ttgttagaat a 231

<210> 1556
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1556
aacagggcgg ctttttgttt tatttctgtt tttttccctt tttcttaaaa aaattaaata 60
aagttctcat tatttcccca atatacatca aatgagtttt catgcaaagc agcagtcaca 120
gaggcagaac tgtccccagc tcgtgcctct cggttggaag aaccaccttc tcccggcccc 180
gggttctctg gtgttctcac tgaggatgga cgacgccac tgtctctccc agctggaact 240
ggctatgacg aaacttggtt ggcgtaggga gaggagtcct cccctctccc caggatgggt 300
ctcaggggac agcaagctct ggggctgac nccatcattg tccttccatc tgagatccca 360
gtgtgacant tggaaagtcc tcttcccagg aatgcgaggt ccnctctcag tctcaatgga 420
atgggataat gagtgtncac ctataag 447

<210> 1557
<211> 417
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1557
ttagtagaga cgaggtcttg ctatgtggcc ctggntggtc tcgaactcca gagcccaaata 60
gatccacca ccttggcctc ccaaagtgtc gggattacag aatgagcca ccacacctgg 120
cctgattgtt tttaaatggc agcaagaaca gggttggaca gcaagggcaa atcacacagt 180
atgtggcata ttcagaattg gttgtgagtt tccagtagaa agcactgaga atatccatag 240
ggcaaaatgg aatactaata atcctcattt gcctttgcct ttgtactggg aaaccagacc 300
ttactttaag cccaccaaag gcaaggtttg gggcctgcca cagcgggatt tcaaaaagac 360
aaagcaatgc aagccacgtg ttcaaaatgc ccttaagtgg gctttttcag ggtnttt 417

<210> 1558
<211> 295
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1558
 ttcgtaaaac nataaaacaa tggtttctag caagtaaaca accaactgat catctctttt 60
 tacctttcgt agatgttttc ttcttaaaac atatagttat atgttttagct tacatattta 120
 tgtatattat atatcaacac ttaaagaata ataattagat tcacagagta cgggtgggaaa 180
 tacaatatat taccggtaca ctattcaggc aagcttatgg gaatgacaaa aaaggantga 240
 atcacttttc atgactaggt atcttaatta tcctctgggt tttttctgac taagg 295

<210> 1559
 <211> 324
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1559
 taaatgtaca ttactataa aagctgttgc attttagaaa acttggtggt tttatttttt 60
 actgtttctc agaggcattt tagaataaat actttaaatg aaagttagta taaccgatat 120
 agaacactgg cccaccaga gcagtaacat cttttggacg gactcacata tgaggtggga 180
 tcatttcagt ttgttaaate ttacactgcg tataggataa ctataatatg tattgcatta 240
 atcacactac atgggaaggg naatgtcagg ggaggttcgc ctaggtggaa aaaacaaaa 300
 ggttacccca tttattttta ttaa 324

<210> 1560
 <211> 382
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1560
 gatttgagtn tttnatattat aaatgtacat ttactataaa agctgttgca ttttagacaa 60
 cttgttggtt ttatttttta ctgtttctca gaggcatttt agaataaata ctttaaataga 120
 aagttagtat aaccgatata gaacactggc ccaccagag cagtaacatc ttttgggacg 180
 ggactcacat atgaggggtgg gatcatttca gtttggttaa tcttacactg cgtataggat 240
 aacctataat atggtattgc attaatcaca ctacatngga aggggaattg catgggggaa 300
 ggtccgctta ggtggaaaaa ccaaaagggt ccccccttat tttttnttta agnggggggg 360
 gggccttggc cctttggggg gg 382

<210> 1561
 <211> 385
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1561
 tttttttttt ttgagattg aaaccagaca tacttatttt aatcatattt tatataaaat 60
 agacatttac ataaatttaa ttttggaag acctaggcaa agtatacatc attagactca 120
 atgggagaaa tactttatgg aagataaatt ctaacgggca cagccaaagt aacaaaaatg 180
 tacatttaca tacaactgat ccaaacagga agtaaaagcn ttntggaaaa anggancatg 240
 ttgcaantca tttccccctg gacaaangga gggntctgcg tgatttacag gcaattcaat 300
 tgttttccac ntttttaaag gcaagcctgg cttctacagg tattttantt ccttgggggg 360
 gagtttcacc tcntcttttt tcccc 385

<210> 1562
 <211> 212
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1562
 gtgtttaagt naaataactct ccaaagttaa tacaattctt cagctaaaac aggaataatg 60
 agacaaaatg gttcgaaaag tacaatagaa aaatattggt cactggttta tttttccaaa 120
 tgagcatcag gctattttaca aatacgcagc cctccaatga cgtgtattaa aatgggcaag 180
 tctatcactg tttgaaatct aaatgaaaac aa 212

<210> 1563
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1563
 cttccatcan nncactttta ttatatggtg aagcatcctt agtgtgaaat taatgggttag 60
 atatataaat gcatggcata acatgagaaa atctaggaga aaatatcctc attttaatct 120
 aagactatgg aattatcaat tccaattaga cttaatcagc aacttacctt tttcaaaaaa 180
 agcaaatgca caaataggct tgataattta actcttctta actattaagg ctctaggatg 240
 tccttaactt ttttaaaaga ncatttttaa accaaagcac taatttctat acacagtaaa 300
 aacaggtaca aatatctgag tttcagatct ggcttttgct aggatag 347

<210> 1564
 <211> 145
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1564
 tttnaagaaa aacnctagca catttattgg gagagtaagc ctgggaaaga ctaagggagt 60
 ggtggcaggg agaaaggctg tggggantca gagcgggtnc tcagttgggt cttgaaggag 120
 aagaggagga ggggtgggagg tgggt 145

<210> 1565
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1565
 ttacatgtta tcttttaaga cctgtaagga catgactagt ctatttagcc agagggccca 60
 aatcactcac tgagacaaaa caaagaagag ccaaagtcc agagggacct gagagctggg 120
 ttcaggtttc ctgcactgta actctccata ggacagtgtc agtaggatgt gccactctgt 180
 taagagccaa ataagtcaca caaattcagt attctggaaa tgaagacttc acaggccaag 240
 gatgtttggg gatttagcca ttgcaacaat tcttcatctg tgggtgactt tttgggaatt 300
 ggggtcccgt taggattggg taatgggatc tgctgggtcat ccttgtcagt tctcttttcc 360
 acttctcgag gcaaggggtgc aggaacagcc tccactatgt taggaaccct ctttgggcac 420

ttgttttcac aggnttaatg nccccnac

448

<210> 1566
<211> 382
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1566
tttttntang aaatgacaag taccgtttat tgtcgttaca caaatgaacc cagcctctgg 60
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ccgagtcatg tgcagtcata cantccaggg agaaagtcgc agtntcgant accggacaca 180
ggttcccttg gnttggtggn gcatctntga tccacagant ggcccacctn tcggagtggc 240
caacggagtc gntgaaacgt tgtcaaataa gncaagtaag tgcaggagcc ctggggntgg 300
ggggcctntg gcttntgnca gccgggtggg gaggagggat ntccaagggt tctgcggggg 360
agggcctcgg cttccanacc tc 382

<210> 1567
<211> 181
<212> DNA
<213> Homo sapiens

<400> 1567
ttttttcaag tgaacataca actttttcttt ataagtatgt aaataaattt catagcacta 60
caaaaatatc aatgtcatct gagaagttta cagtgggtccc agtactgtag gagagaatta 120
aataaaataa aatagctgta gataattaa agctaattag ataaatcaag ttacagtatc 180
a 181

<210> 1568
<211> 194
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1568
acaaatatat tacatttatt ataggaatac aataaagagg ttctgcagac acatgagtgg 60
taactgggtct attggaaaag aaaagacaat taaaaaatga tctaagttaa caaaaatgnt 120
gantcatgct ttaaaaatgt agaaacantt aaaaantatc ctacaatggt agccaangtt 180
caaagtgtat ttct 194

<210> 1569
<211> 333
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1569
ccgctcgagt tttttttttt tttttttgtg ctcaaacatt ttaatcattt ctgccctgtg 60
actcccaccc cagatccaag cgccanccag ttccgggtggg ggctcagtcc tccggagtcc 120
aggagtcagg gctcgggggc gctcagcggc cagtgggcaa gattggggcc tttcctgtcc 180
tcgaagntgc acaaaggttg ncccagccca gancacaggg agagggcaga gagatgtgct 240
catcagtctt ggcaggcggg ccgggagcag tcttccagaa acaggtggga gccagggctn 300
attttcatag ccaagggtcc catgagcttc cca 333

<210> 1570
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1570
 gcaaatacata aggaagtttt tattgggtcc tgtacagaag agaaatgctc cgttgtcaaa 60
 aaactacaaa gggatccctg gctctgggtg tgctatgaag acaactccct cccagtnag 120
 cccaggggaac aggctggatg ctggacaaag tttgggaggg agctccaggn ccagggctct 180
 ccanttgggg tctccccctt tatgtttnta aaaaccgcag nttggagtat ttagaggntc 240
 ntgtcccctg caagtattgc cgttggntat gaaacacaca gag 283

<210> 1571
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 1571
 tttttttttt attttttttt actgttgacc atgtagtttt atttcatcag tactcccatt 60
 tttaatggat tcaggcagca cccagagta caggactgag ttcctagggg tggcctgacc 120
 cagcagctgt cttcttttcc aggaggaaaa agctttttat taa 163

<210> 1572
 <211> 548
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1572
 tggggcagan anaagnnctt tattgatnnn ntcagnaatg cagggctggc acccatcagc 60
 ttcaaaccac atcttatcgc atccactcct ntcencttcc nnncccattt tgcctnttt 120
 cagggtgaaa tcttgctttc aggcaagggc ttccggccag ccttgcattha gttctcagct 180
 atggtcttct gaacccagtc ctgggatgga agtcaccttc acatacacac catactcagc 240
 cacagcacag ctcttatcaa agcttaagat cccagtcgca taccaggggt tctcctcca 300
 ggggtcgtgg aacgggcaaa gggcactgcc cgcacgccca taggcagggt gtctttcttg 360
 ggtacttttag gacatggcca ggcacaggag ggtgtgtttc atttcagtat gggggcttgc 420
 acccctacan gggctctttc ggggtgttct ctttttcggg ggacttggtg ctggcctttc 480
 ataatgnctt atggatttgg gttttgggtc aggcacagga nggcattgac atacttcaga 540
 tgggggnca 548

<210> 1573
 <211> 418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1573
 ttttttttta attccaagga gtgggaaggt tttaatgagc atcccagagg gccnagggga 60
 taciaactcc aaatccagcc tttatatcat cattatttca agcaacagga ggaggctcag 120
 cttgcttagc tcattcccag atgaagaggc agctggaggg aagtccttga aagtgcctnt 180
 ctaccagca gaggggntaa gggaaagtgg agaggtntct gctgntgctn ctgctgctgc 240
 tgctgctgtt gctgctacca ntgccaccaa gagcaggagg acctcaagca ccaagctgac 300

ctttgggagg tcagggacgg acccagattc aggcaggatt ttgggcagga acatcagaca 360
 ttggganggt tagatgcaga cttgaacagg ttaagaaacc tnttaagggg tcccccg 418

<210> 1574
 <211> 339
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc.feature
 <223> n=a,t,g or c

<400> 1574
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 acattttttt ccttcagatt ttgattataa gaataactgg gtcagagggtg tcttttccat 120
 aggaaactga catcccctat gtcctcagan ttnttttttt tttttttttn tncaaaaaaa 180
 tgcataaaag attttcaacn catgngcatg ccacacattt ccatccccac cccaccctgc 240
 cccaccctct acaggcacac atattcacac accaaagggg nttcttcccg taaccggggg 300
 acagaatgta aanattcca tccaagnggc caccgntac 339

<210> 1575
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc.feature
 <223> n=a,t,g or c

<400> 1575
 tttttttttt atcagactaa gcaacttgat gaccaggacc atatccccta tttcttagta 60
 ttctcttcag catttttagcc agagtaggag tccgtgttga atacaagttt gtcattctat 120
 ggattatata ttaggggtgaa tatcagagct ggtgtccatc atgtgaacag gcagcatggt 180
 actggtgggg agaggggtgg aagtacagag tactagggcc ccaggagcta atattgctaa 240
 cttgacaata ttggtaaaag ctagaccngt taagaactac cngcaatggt tagtactgaa 300
 agcaaaaggg gaaggattca tcaggctaaa ataaaaaggg gaaactagca ggttgggcat 360
 aggggcagaa cccangggaa aaccaaaacc aaaaccccc aaaaaactac taggatttcc 420
 ccgaaaagtg gggaaaagcc cnaaatctcc aggnccattt aatgacagcc aggtatttnc 480
 caaatgtagg gg 492

<210> 1576
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc.feature
 <223> n=a,t,g or c

<400> 1576
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 anaggtntgg gtaggagctg agtggccact ggggtgaagg gagacagagg aggcntngcc 120
 agcaggntcc tatccagatg atacatgaga tggaggctcc tcagccacac tccagggagg 180
 gtgggggtgg aagggggatt cagggataat ggcattaata atacaagtgg taaacaaata 240
 accaagaggn tctggctggt tacgntacac aaaanttagc agtaagagtc cgtgctttca 300
 cattcctatc agacagatct gagttcaa atcctgtatgn tagcaggggtg aggtatctgc 360
 tttctttcag agcccatggg tgcacatctc tgagcctagt tacaacagtt ggcacatagg 420
 tnggtgacaa ggagggcagc tctttgattc ctgnttgctt ccacagcaca gagagttaag 480
 tatggctggt nta 493

<210> 1577
<211> 389
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1577
acagggacat gntaggaaac gatgaaccta actgggcatg aagatgtcta gggaaaaaac 60
aaggaagagt aaaaagttac acagaatcta tgcagcggca acaaaatcac ttttaagggg 120
gcaggagaaa aactaatgca aatcttaggt cattagggag tctccgagcc attcacataa 180
tttgcatctt ttacactcct tatccacagc acaatgaaac cccaagagaa tccatctgga 240
gagagcgaaa ggggatggat tccgggtgtt ttggggtnag ggacaggggg agaagggtccn 300
gtttcaacaa atgtgacata cggggaaagt cagacgactt taactntaaa cttnngataat 360
ggnagttaca aacccaaata atcaggcag 389

<210> 1578
<211> 305
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1578
ttaattatng atattcccc tcaccgcctt cagggancgg gagaagtcac acgaccatag 60
ggagcttga cttggtgtgc gtcacgggtgc tggcagacga ggggtctttcc aggaaccctt 120
tgctagaatc agccctcata caagtgtgct cagagatccc aggagcgtat gcatcctccc 180
gaagtcacta cccccatatg tctccttggg cttcttcccc ctctctttct ggaacctgac 240
caggcagaac gcagcaactg ncagcaacag cacgcccagg gagcacccca atcagagntc 300
cggcc 305

<210> 1579
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1579
ttgacgttgg cagtgacatt tatttttctn nggggagggg agttatatac agcagtgacc 60
cggagcccct cccccacc aggcttaggt ggggacagga ggcgttggca gaaggcacac 120
agtggcagta gccagaagag gccaggaagt aagggtgggt atgtgatgtg tcctgggaga 180
cccagatgag gaaattgagg ctcatgagg gcctcaggtc acacagtaag gtgcgaagga 240
gctagtcccc agagcttgtg gtggttgctt ctctcttgcc tgggctacag gaggacgcag 300
gggcagcccc cgcccttctt cctgggggca ctgggagggc tcggtgggag ctcttgttcc 360
tggtatttcc ggacagcccc caccagctgc ttcaaaagcc tcgtccacgt tgagacgcat 420
tttgccga 429

<210> 1580
<211> 419
<212> DNA
<213> Homo sapiens

<400> 1580
ctcttgacga ctccacagat acccgaagc catggcaagc aagggttgc aggacctgaa 60

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gcaacaggtg | gaggggaccg | cccaggaagc | cgtgtcagcg | gccggagcgg | cagctcagca | 120 |
| agtgggtggac | caggccacag | aggcggggca | gaaagccatg | gaccagctgg | ccaagaccac | 180 |
| ccaggaaacc | atcgacaaga | ctgctaacca | ggcctctgac | accttctctg | ggatcgggaa | 240 |
| aaaattcggc | ctcctgaaat | gacagcaggg | agacttgggt | cggcctcctg | aaatgatagc | 300 |
| agggagactt | gggtgacccc | ccttccaggc | gccatctagc | acagcctggc | cctgatctcc | 360 |
| gggcagccac | cacctcctcg | gtctgcccc | tcattaaaat | tcacgttccc | accctgaaa | 419 |

<210> 1581
 <211> 2383
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 1581 | aaaaaaaaaa | caccagtttt | tccaacatct | aattgagctt | ttgattaatt | 60 |
| ccgtgtacca | gattctactg | aagaaaggta | gccatggaag | agaatatgga | agagggacag | 120 |
| acacaaaaag | ggtgttttga | atgctgtatc | aaatgcctgg | ggggcattcc | ctatgcctct | 180 |
| ctgattgcc | ccatcctgct | ctatgcgggt | gttgccctgt | tctgtggctg | cggtcatgaa | 240 |
| gcgcttttctg | gaactgtcaa | cattctgcaa | acctactttg | agatggcaag | aactgctgga | 300 |
| gacacactgg | atgtttttac | catgattgac | atctttaagt | atgtgatcta | cggcatcgca | 360 |
| gctgcgttct | ttgtgtatgg | cattttgctg | atggtggaag | gtttcttcac | aactggggcc | 420 |
| atcaaagatc | tctatgggga | tttcaaaatc | accacttggt | gcagatgtgt | gagcgcttgg | 480 |
| ttcattatgc | tgacatatct | tttcatgttg | gcctggctgg | gagtcacggc | tttcacctca | 540 |
| ctgccagttt | acatgtactt | caatctgtgg | accatctgcc | ggaacaccac | attagtggag | 600 |
| ggagcaaatc | tctgcttgga | ccttcgtcag | tttggaattg | tgacaattgg | agaggaaaag | 660 |
| aaaatttgta | ctgtctctga | gaattttctg | aggatgtgcg | aatctactga | gctgaacatg | 720 |
| accttccact | tgtttattgt | ggcacttgct | ggagctgggg | cagcagtcac | tgctatgggt | 780 |
| cactacctta | tggttctgtc | tgccaactgg | gcctatgtga | aagacgcctg | ccggatgcag | 840 |
| aagtatgaag | acatcaagtc | gaaggaagag | caagagcttc | atgacatcca | ctctactcgc | 900 |
| tccaaagagc | ggctcaatgc | atacacataa | atgcatcttc | ctgttctttc | taccatttga | 960 |
| atgcattgggt | gttttaactaa | gggccatcca | accatccaac | ctttaaaaaa | caaaacgaaa | 1020 |
| gtgcttctca | tcaatgatat | gtaagggtgac | ttatgaatca | cctgagtaca | attctttggt | 1080 |
| gttttagcact | taaatttccc | aatttattaa | attgatgtaa | atcagatctt | ttctacaagc | 1140 |
| tcctatccag | cctttttttt | gaaatttctc | aaactcattt | actagtctctg | taaaatcaaa | 1200 |
| gatactaaca | ttgtcaaatg | caaagatttg | tttgattttt | aaccacttcc | catgtgttat | 1260 |
| acataacacc | ttttgcatta | tgtcttatgt | tttgaaaaga | aaatagcctt | ttatactttt | 1320 |
| tagttttgat | ttcggttaact | agtttaacta | caggtaacct | tcaaaggacc | attgtacatt | 1380 |
| atgaacaata | gatagagatt | acatcttgat | gactcttgaa | atatggaaat | tttgtctgaa | 1440 |
| gatcagtggc | catattactg | taggccctgg | ttcatgtttt | catcaatcta | aggtgcaatt | 1500 |
| tctaaatttg | taagagtagg | tttaaaaaaa | aaagtgcctc | ttatctttgt | taacattgta | 1560 |
| cttttccttg | atgttcttaa | aaggatattc | cctcagatta | ctcatgttta | tgttgtgagc | 1620 |
| atgtagaaac | agtaatgcta | atgcatggct | agttgccttt | ttaagattgt | gacaccaggc | 1680 |
| ttacctttta | aagtttagta | tatagagaca | attttaatgg | aaataactac | tgtagactat | 1740 |
| tgaagaatga | tctctttgtg | atttaagaag | tggctggatt | ggaactttta | atatgctaata | 1800 |
| gtggaaaatt | aattaccttt | atgaagggtg | tttattacaa | ataagcacac | taaccctctg | 1860 |
| gaagttgttt | tacctacttt | aaaagtttta | atggattgca | cctctgtaaa | ctattcctaa | 1920 |
| aatgtgtatg | atatatttga | aaaggcttcc | attaatataa | tagctttgct | tgcagccttc | 1980 |
| caatctatgt | tggttttacct | gtagtgtttt | ataaagtgtg | gtcagagggc | cctatagaat | 2040 |
| gtattgtttg | aaagtgtagt | gatatatattg | tgttttttatt | tcaagtaagt | cattttaacc | 2100 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| gaatgttcat | tcatattcat | ttataaaaag | tacctgtatc | aaaggaattt | taacaaagag | 2160 |
| caatcagtat | tattggacca | aatttgggtg | ttgttttcac | cttgacgctc | ttcttttcat | 2220 |
| tatttcta | gctacaagaa | tgctgtaaag | tgtcttctaa | aatgatgtag | cctgacaaga | 2280 |
| catttttttc | agtgtataaa | actaggtagt | attgtgcact | gatttgacca | ttgtgaaatc | 2340 |
| ctttctcagt | gtaactgcat | ttctaataaa | aatttattga | gtg | | 2383 |

<210> 1582
 <211> 1137
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| <400> 1582 | | | | | | |
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| gtgctctacc | gggcgctggt | ctccaccaag | tggctggcgg | agtcacatcag | gactggcaag | 120 |
| ctggggcccg | gcctgcgggt | gctggacgcg | tcctggtact | caccaggcac | ccgagaggcc | 180 |
| cgcaaggagt | acctcgagcg | ccacgtaccc | ggcgccctct | tctttgacat | agaagagtgc | 240 |
| cgggacacgg | cgtcgcccta | cgagatgatg | ctgcccagcg | aggctggctt | cgccgagtat | 300 |
| gtgggcccgc | tgggcatcag | caaccacacg | cacgtggtgg | tgtatgatgg | tgaacacctg | 360 |
| ggcagcttct | atgctccccg | ggtctggtgg | atgttccgtg | tgtttggcca | ccgcaccgta | 420 |
| tcagtgtca | atggtggctt | ccggaactgg | ctgaaggagg | gccaccgggt | gacatccgag | 480 |
| ccctcacgcc | cagaaccggc | cgtcttcaaa | gccacactgg | accgctccct | gctcaagacc | 540 |
| tacgagcagg | tgctggagaa | ccttgaatct | aagaggttcc | agctggtgga | ttcaaggtct | 600 |
| caagggcggt | tcctgggcac | cgagccggag | ccgatgacag | taggactgga | ctcgggcat | 660 |
| atccgtggtg | ccgtcaacat | gcctttcatg | gacttctcta | ctgaggatgg | cttcgagaag | 720 |
| ggcccagaag | agctccgtgc | tctgttccag | accaagaagg | tggatctctc | gcagcctctc | 780 |
| attgccacgt | gccgcaagg | agtcaccgcc | tgccacgtgg | ccttggtctg | ctacctctgc | 840 |
| ggcaagcctg | atgtggccgt | gtacgatggc | tcctggtccg | agtggtttcg | ccgggcccc | 900 |
| ccagagagcc | gtgtgtccca | gggaaagtct | gagaaggcct | gagccgtgac | ctcttctgct | 960 |
| tactgtaa | gcggccggtt | tagtgacccc | atgacttaca | gccggttctt | acctcttagg | 1020 |
| tgaaggagat | gacatgtttt | ttagaattgc | tgtgcaaggc | tcaccctctc | tctgtcaaca | 1080 |
| ctggaataaa | ctttgccttt | tctgaaaaaa | aaaaaaaaaa | aaaaaaaaac | ggaattc | 1137 |

<210> 1583
 <211> 2491
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| ggaacggggc | gagcgccatg | agcaacaaat | gcgacgtggt | cgtggtgggg | ggcggcatct | 120 |
| cagggtatggc | agcagccaaa | cttctgcatg | actctggact | gaatgtggtt | gttctggaag | 180 |
| cccgggaccg | tgtgggaggc | aggacttaca | ctcttaggaa | ccaaaagggt | aaatatgtgg | 240 |
| accttgagg | atcctatggt | ggaccaaccc | agaatcgtat | cttgagatta | gccaaggagc | 300 |
| taggattgga | gacctacaaa | gtgaatgagg | ttgagcgtct | gatccacat | gtaaagggca | 360 |
| aatcataccc | cttcaggggg | ccattcccac | ctgtatggaa | tccaattacc | tacttagatc | 420 |
| ataacaactt | ttggaggaca | atggatgaca | tggggcgaga | gattccgagt | gatgccccat | 480 |
| ggaaggctcc | ccttgacagaa | gagtgaggaca | acatgacaat | gaaggagcta | ctggacaagc | 540 |
| tctgctggac | tgaatctgca | aagcagcttg | ccactctctt | tgtgaacctg | tgtgtcactg | 600 |
| cagagaccca | tgaggtctct | gctctctggt | tcctgtggta | tgtgaagcag | tgtggaggca | 660 |
| caacaagaat | catctcgaca | acaaatggag | gacaggagag | gaaatttgtg | ggcggatctg | 720 |
| gtcaagtgag | tgagcggata | atggacctcc | ttggagaccg | agtgaagctg | gagaggcctg | 780 |

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|------|
| tgatctacat | tgaccagaca | agagaaaatg | tccttgtgga | gaccctaaac | catgagatgt | 840 |
| atgaggctaa | atatgtgatt | agtgtctattc | ctcctactct | gggcatgaag | attcacttca | 900 |
| atccccctct | gccaatgatg | agaaaccaga | tgatcactcg | tgtgcctttg | ggttcagtca | 960 |
| tcaagtgtat | agtttattat | aaagagcctt | tctggaggaa | aaaggattac | tgtggaacca | 1020 |
| tgattattga | tggagaagaa | gctccagttg | cctacacggt | ggatgatacc | aaacctgaag | 1080 |
| gcaactatgc | tgccataatg | ggatttatcc | tggcccacaa | agccagaaaa | ctggcacgtc | 1140 |
| ttaccaaaaga | ggaaagggtg | aagaaacttt | gtgaactcta | tgccaagggt | ctgggttccc | 1200 |
| tagaagctct | ggagccagtg | cattatgaag | aaaagaactg | gtgtgaggag | cagtactctg | 1260 |
| ggggctgcta | cacaacttat | ttccccctg | ggatcctgac | tcaatatgga | aggggttctac | 1320 |
| gccagccagt | ggacaggatt | tactttgcag | gcaccgagac | tgccacacac | tggagcggct | 1380 |
| acatggaggg | ggctgtagag | gccggggaga | gagcagcccg | agagatcctg | catgccatgg | 1440 |
| ggaagattcc | agaggatgaa | atctggcagt | cagaaccaga | gtctgtggat | gtccctgcac | 1500 |
| agcccatcac | caccaccttt | ttggagagac | atgtgccctc | cgtgccaggc | ctgctcaggc | 1560 |
| tgattggatt | gaccaccatc | ttttcagcaa | cggctcttgg | cttcctggcc | cacaaaaggg | 1620 |
| ggctacttgt | gagagtctaa | agagagaggg | tgtctgtaat | cacactctct | tcttactgta | 1680 |
| tttgggatat | gagtttgggg | aaagagttgc | aagtaaagtt | ccatgaagac | aaatagtgtg | 1740 |
| gagtgaggcg | ggggagcatg | aagataaatc | caactctgac | tgtaaaatac | aatggtatct | 1800 |
| ctttctccgt | tgtggccctt | gcttagtgtc | ccttacctgg | cttagcgttc | tgtttcacca | 1860 |
| gtttccaagt | ttattgcctt | caaatcttta | gaatagttaa | attggcttgt | ttaaggttct | 1920 |
| tgctgcccga | caacacacct | tgcccatgca | caggatgaat | tttttcctac | cattatggct | 1980 |
| ttgtgcttgt | tcttcctctt | acctgtatag | cctcacttcc | ctagtctctt | gcattcgtcc | 2040 |
| ttaggtagtg | tattgttaca | gctgaaagac | agtaaagacc | atttagtctt | caccttctgt | 2100 |
| tttagagttg | agcaaactga | agcccacaga | ggtggaactt | aattacctaa | gagccacaat | 2160 |
| aagccactgg | tatctggggg | actagaacac | aaataattgc | ttttcccacc | tctttggatg | 2220 |
| ttttcccaa | ttatcctcct | tcactccctg | tcatagttac | cgatggtgtc | ccgttggtgtg | 2280 |
| ggtttactct | gtgctaagtt | gtcttacact | tctcaaagtc | tactcagtat | atagccttaa | 2340 |
| ctcttactgt | tttgtgcggt | gtgtctccag | ctgattttta | cttttttgat | ggtagaaatt | 2400 |
| ttatctcttc | ttccttttgt | atcctccatt | gtatcttcat | acaaaggaca | gtacacactt | 2460 |
| gggtaattaa | aaataaaagt | tgattgacca | t | | | 2491 |

<210> 1584
 <211> 2061
 <212> DNA
 <213> Homo sapiens

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| ggcttcacct | tctccttctc | tcttcgttgc | tgagcgacaa | gcttcctagc | gctatgactg | | 120 |
| tcgtctccgt | cccgcagcgg | gagccgctcg | tcctgggtgg | ccgccttgcg | ccgcttggtc | | 180 |
| tttcctccc | aggttacttt | ggggccctcc | cgatggtgac | cacggctccg | cctcctttac | | 240 |
| cccggatccc | ggacccccgg | gcaactgccc | cgaccctctt | cctccctcat | ttcctagggg | | 300 |
| gagatggccc | gtgtctgacc | ccccagcctc | gcgtctccagc | agctctgccc | aaccgcagcc | | 360 |
| tcgccgtggc | gggaggcact | cctcgggcag | cgccgaagaa | gcggcgaaag | aagaagggtgc | | 420 |
| gggccagccc | cgcagggcag | ctgcccagcc | gcttccacca | gtaccagcag | caccggccga | | 480 |
| gtctggaggg | cggccggagc | cccgcgaccg | gcccgcagcg | agcgcaggag | gtcccggggc | | 540 |
| cggccgccc | cttggccccg | agtctgcag | ccgcagccgg | cacggaggga | gccagccccg | | 600 |
| accttgcccc | gctgcggccc | gcggctcccc | gccaaacccc | cctcaggaaa | gagggtttta | | 660 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| aatcaaagat | gggaaaatcg | gagaaaattg | cccttcccca | tggccagctt | gttcatggta | 720 |
| tacacttgta | tgagcaacca | aagataaaca | gacagaaaag | caaataaac | ttgccactaa | 780 |
| ccaagatcac | ctctgcaaaa | agaaatgaaa | acaacttttg | gcaggattct | gtttcatctg | 840 |
| acagaattca | gaagcaggaa | aaaaagcctt | ttaaaaatac | cgagaacatt | aaaaattcgc | 900 |
| atttgaagaa | atcagcattt | ctaactgaag | tgagccaaaa | ggaaaattat | gctggggcaa | 960 |
| agtttagtga | tccaccttct | cctagtgttc | ttccaaagcc | tcctagtcac | tggatgggaa | 1020 |
| gcaactgttg | aaattccaac | caaaacaggg | agctgatggc | agtacactta | aaaaccctcc | 1080 |
| tcaaagttca | aacttagatt | tcagatttca | gtatgtgtgt | aaaacataat | ttttcccata | 1140 |
| tccctggact | cttgagaaaa | ttggtacaga | aatggaaatt | tgcttggttg | caacatacaa | 1200 |
| ttgcaaaaga | tgagtttaaa | aaattacata | caaacagctt | gtattatatt | ttatattttg | 1260 |
| taaatactgt | ataccatgta | ttatgtgtat | attgttcata | cttgagaggt | atattatagt | 1320 |
| tttggttatga | aagtatgtat | tttgccctgc | ccacattgca | gggtgtttgt | atatatacaa | 1380 |
| tggataaatt | ttaagtgtgt | gctaaggcac | atggaagacc | gattttattt | gcacaaggta | 1440 |
| ctgagatttt | tttcaagaaa | cagctgtcaa | atctcaaggt | gaagatctaa | atgtgaacag | 1500 |
| tttactaatg | cactactgaa | gtttaaatct | gtggcacaa | caatgtaagc | atgggggttg | 1560 |
| tttctctaaa | ttgatttgta | atctgaaatt | actgaacaac | tcctattccc | atttttgcta | 1620 |
| aactcaattt | ctggtttttg | tatatatcca | ttccagctta | atgcctctaa | ttttaatgcc | 1680 |
| aacaaaattg | gttgtaatca | aattttaaaa | taataataat | ttggccccc | cttttaaaat | 1740 |
| agtcttgact | ctttgtgtgt | gactgtttct | catgtttgaa | tgtgtgacta | ggagatgatt | 1800 |
| ttgtgtggtt | ggattttttt | gacttctact | ttactggctg | agtgtgagcc | gccatgcctg | 1860 |
| gccataatct | acatttttct | accaggagca | gcattgaggt | ttttgagcat | agtacttgac | 1920 |
| tactctagag | gctgagacgg | gagcatctct | tgagcctgag | aagtggagat | tgcaattgag | 1980 |
| ctaggatcag | gccactgcac | tccagcctgg | gtaacagacg | ctgtctcaaa | aaaaaggcca | 2040 |
| agagaaagta | agggagacag | a | | | | 2061 |

<210> 1585
 <211> 2512
 <212> DNA
 <213> Homo sapiens

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| | tgtgacattg | tcccagacgc | ttgtaaaggt | ggaatgaagt | gtgtcaacca | ctatggagga | 120 |
| | tacctctgcc | ttccgaaaac | agcccagatt | attgtcaata | atgaacagcc | tcagcaggaa | 180 |
| | acacaaccag | cagaaggaac | ctcaggggca | accaccgggg | ttgtagctgc | cagcagcatg | 240 |
| | gcaaccagtg | gagtgttgcc | cgggggtggt | tttgtggcca | gtgctgctgc | agtcgcaggc | 300 |
| | cctgaaatgc | agactggccg | aaataacttt | gtcatccggc | ggaaccagc | tgaccctcag | 360 |
| | cgcattccct | ccaacccttc | ccaccgtatc | cagtgtgcag | caggctacga | gcaaagtga | 420 |
| | cacaacgtgt | gccaagacat | agacgagtgc | actgcaggga | cgcacaactg | tagagcagac | 480 |
| | caagtgtgca | tcaatttacg | gggatccctt | gcatgtcagt | gccctcctgg | atatcagaag | 540 |
| | cgaggggagc | agtgcgtaga | catagatgaa | tgtaccatcc | ctccatattg | ccaccaaaga | 600 |
| | tgcgtgaata | caccaggctc | attttattgc | cagtgcagtc | ctgggtttca | attggcagca | 660 |
| | aacaactata | cctgcgtaga | tataaatgaa | tgtgatgcca | gcaatcaatg | tgctcagcag | 720 |
| | tgctacaaca | ttcttggttc | attcatctgt | cagtgcaatc | aaggatatga | gctaagcagt | 780 |
| | gacaggctca | actgtgaaga | cattgatgaa | tgcagaacct | caagctacct | gtgtcaatat | 840 |
| | caatgtgtca | atgaacctgg | gaaattctca | tgtatgtgcc | cccagggaata | ccaagtgggtg | 900 |
| | agaagtagaa | catgtcaaga | tataaatgag | tgtgagacca | caaataaatg | ccgggaggat | 960 |
| | gaaatgtggt | ggaattatca | tggcggcttc | cgttggttatc | cacgaaatcc | ttgtcaagat | 1020 |

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|------|
| ccctacattc | taacaccaga | gaaccgatgt | gtttgcccag | tctcaaattgc | catgtgccga | 1080 |
| gaactgcccc | agtcaatagt | ctacaaatac | atgagcatcc | gatctgatag | gtctgtgcc | 1140 |
| tcagacatct | tccagataca | ggccacaact | atztatgcc | acaccatcaa | tacttttcgg | 1200 |
| attaaatctg | gaaatgaaaa | tggagagttc | tacctacgac | aaacaagtcc | tgtaatgtca | 1260 |
| atgcttgtgc | togtgaagtc | attatcagga | ccaagagaac | atatcgtgga | cctggagatg | 1320 |
| ctgacagtca | gcagtatagg | gaccttccgc | acaagctctg | tgtaagatt | gacaataata | 1380 |
| gtggggccat | tttcatttta | gtcttttcta | agagtcaacc | acaggcattt | aagtcagcca | 1440 |
| aagaatattg | ttaccttaaa | gcactatttt | atztatagat | atatctagt | catctacatc | 1500 |
| tctatactgt | acactcacc | ataacaaaca | attacaccat | ggtataaagt | gggcatttaa | 1560 |
| tatgtaaaga | ttcaaagttt | gtctttatta | ctatatgtaa | attagacatt | aatccactaa | 1620 |
| actggtcttc | ttcaagagag | ctaagtatac | actatctggt | gaaacttgga | ttctttccta | 1680 |
| taaaagtggg | accaagcaat | gatgatcttc | tgtggtgctt | aaggaaactt | actagagctc | 1740 |
| cactaacagt | ctcataagga | ggcagccatc | ataaccattg | aatagcatgc | aagggtgaaga | 1800 |
| atgagttttt | aactgctttg | taagaaaatg | gaaaagggtca | ataaagatat | atctctttag | 1860 |
| aaaatgggga | tctgccatat | ttgtgttggt | ttttattttc | atatccagcc | taaagggtgt | 1920 |
| tgttttattat | atagtaataa | atcattgctg | tacaacatgc | tggtttctgt | agggtatttt | 1980 |
| taattttgtc | agaaatttta | gattgtgaat | attttgtaaa | aaacagtaag | caaaattttc | 2040 |
| cagaattccc | aaaatgaacc | agataccccc | tagaaaatta | tactattgag | aatcttatgg | 2100 |
| ggaggatatg | agaaaataaa | ttccttctaa | accacattgg | aactgacctg | aagaagcaaa | 2160 |
| ctcggaaaat | ataataacat | ccctgaattc | aggcattcac | aagatgcaga | acaaaatgga | 2220 |
| taaaagggtat | ttcactggag | aagttttaat | ttctaagtaa | aatttaaatac | ctaactctc | 2280 |
| actaatttat | aactaaaatt | tctcatcttc | gtacttgatg | ctcacagagg | aagaaaatga | 2340 |
| tgatggtttt | tattcctggc | atccagagtg | acagtgaact | taagcaaatt | accctcctac | 2400 |
| ccaattctat | ggaatatttt | atacgtctcc | ttgtttaaaa | tctgactgct | ttactttgat | 2460 |
| gtatcatatt | tttaaataaa | aataaatatt | cctttagaag | atcactctaa | aa | 2512 |

<210> 1586
 <211> 1908
 <212> DNA
 <213> Homo sapiens

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| ttcttctggg | tgctgctcct | gctcacggct | gcctgctcgg | ggctcctctt | tgccctgtac | | 120 |
| ttctcggcgg | tgacgcggta | cccggggcca | gcggccggag | ccaggggacac | cacatcattt | | 180 |
| gaagcattct | ttcaatccaa | ggcatcgaat | tcttgagacag | gaaaggggcca | ggcctgcccga | | 240 |
| cacctgcttc | acctggccat | tcagcggcac | ccccacttcc | gtggcctgtt | caatctctcc | | 300 |
| attccagtgc | tgctgtgggg | ggacctcttc | accccagcgc | tctgggaccg | cctgagccaa | | 360 |
| cacaaagccc | cgtatggctg | gcgggggctc | tctcaccaag | tcacgcctc | caccctgagc | | 420 |
| cttctgaacg | gctcagagag | tgccaagctg | tttgccccgc | ccaggggacac | ccctccaaag | | 480 |
| tgtatccggt | gtgccgtggt | gggcaacgga | ggcattctga | atgggtccc | ccagggtccc | | 540 |
| aacatcgatg | cccatgacta | tgtattcaga | ctcaatggag | ctgtgatcaa | aggcttcgag | | 600 |
| cgcgatgtgg | gcaccaagac | ttccttctat | ggtttctactg | tgaacacgat | gaagaactcc | | 660 |
| ctcgtctcct | actggaatct | gggcttcacc | tccgtgccac | aaggacagga | cctgcagtat | | 720 |
| atcttcatcc | cctcagacat | cgcgcactat | gtgatgctga | gatcggccat | tctgggctgtg | | 780 |
| cctgtccctg | agggcctaga | taaaggggac | aggccgcacg | cctatttttg | accagaagcc | | 840 |
| tctgccagta | aattcaagct | gctacatccg | gacttcatca | gctacctgac | agaaagggttc | | 900 |

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|------|
| ttgaaatcaa | agttgattaa | cacacatttt | ggagacctat | atatgcctag | taccggggct | 960 |
| ctcatgctgc | tgacagcttt | gcatacctgt | gaccagggtca | gtgcctatgg | attcatcaca | 1020 |
| agcaactact | ggaaattttc | cgaccactat | ttcgaacgaa | aaatgaagcc | attgatattt | 1080 |
| tatgcaaacc | acgatctgtc | cctggaagct | gccctgtgga | gggacctgca | caaggccggc | 1140 |
| atccttcagc | tgtaccagcg | ctgaccccaa | tgcactgagc | gctttgcttc | ttcaagagtt | 1200 |
| gcggccctga | tcctctcaag | tggccaaaag | cttttttaac | ttttcaatct | tcaccttccc | 1260 |
| ttgccaacag | agggcactgg | ggtgaattca | agattttcat | cgagggtctgt | tcaatatagg | 1320 |
| acaccccagc | ttgtccttgg | ctcatccaag | aactcttctg | tatctaaaac | aatacatctc | 1380 |
| aatcttggcc | aagggaataa | ggactgcttt | gctggattgg | caactgagca | ctttaggaaa | 1440 |
| tgctcgggtga | gtgttcagca | agatcagaca | gcagtccagg | tcaaaggcaa | acacacacgc | 1500 |
| tccagcccaa | atcctcctgg | tggcacatcc | taccccgat | gctaaagtga | ttcaaggact | 1560 |
| ccaggacacc | tcttaagagc | ctttctaaga | acatgatagg | cttacttctg | ctccataata | 1620 |
| aagtgggaga | aaaaagccag | aatataactt | aagactagat | aactgcgtac | atgatggacc | 1680 |
| atTTTTTTTT | TTTTTggctg | ggtagagaaa | tcatataaaa | cgagggctgt | ttagcatgga | 1740 |
| gatgactctc | agaacactgg | gaggggtctg | cacttgatgg | gggttagttg | cttggcagcc | 1800 |
| tgcttgcac | tgagggaagt | cccattagag | atgtatcacc | accttgtcac | caacaggatg | 1860 |
| atgtcaccaa | caggatgatg | tcaccaggta | ataaaccttc | atcctcac | | 1908 |

<210> 1587
 <211> 577
 <212> DNA
 <213> Homo sapiens

| | |
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| gttagcagga | ggggaaggaa ggggttggag tcttggggag tctcaccatc aactcctcct 120 |
| cctgctgctg | ttccatttgc ctgagacatg gaggttggagc tgctgcgggg cagccaggcc 180 |
| atcatgctgc | gctcagcggg cctgacagga ctggagaagc gtgtggagca gatccgtgac 240 |
| cacatcaatg | ggcgcgtgct ctactatgcc acctgcaagt gatgctacag cttccagccc 300 |
| gttgccccac | tcatctgccg cctttgcttt tgggttgggg gcagattggg ttggaatgct 360 |
| ttccatctcc | aggagacttt catgtagccc aaagtacagc ctggaccacc cctgggtgtgt 420 |
| acctagtaag | attaccctga gctgcagctg agcctgagcc aatgggacag ttacacttga 480 |
| cagacaaaga | tgggtggagat tggcatgcca ttgaaactaa gagctctcaa gtcaaggaag 540 |
| ctgggctggg | cagtatcccc cgcctttagt tctccac 577 |

<210> 1588
 <211> 3100
 <212> DNA
 <213> Homo sapiens

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| tcgcgacgag | tacaagccac | tggatctgtc | cgattccaca | ttgtcttaca | ctgaaacgga | 240 |
| ggctaccaac | tcctcatca | ctgctccggg | tgaattctca | gacgccagca | tgtctccgga | 300 |
| cgccaccaag | ccgagccact | ggtgcagcgt | ggcgtactgg | gagcaccgga | cgcgcgtggg | 360 |
| ccgcctctat | gcggtgtacg | accaggccgt | cagcatcttc | tacgacctac | ctcaggggcag | 420 |
| cggcttctgc | ctgggccagc | tcaacctgga | gcagcgcagc | gagtcgggtgc | ggcgaacgcg | 480 |
| cagcaagatc | ggcttcggca | tcctgctcag | caaggagccc | gacggcgtgt | gggcctacaa | 540 |
| ccgcggcgag | caccccatct | tcgtcaactc | cccgcgctg | gacgcgcccg | gcggccgcgc | 600 |
| cctggtcgtg | cgcaagggtg | ccccgggcta | ctccatcaag | gtgttcgact | tcgagcgctc | 660 |
| gggcctgcag | cacgcgcccg | agcccgcgc | cgccgacggc | ccctacgacc | ccaacagcgt | 720 |
| ccgcatacag | ttcgccaagg | gctggggggc | ctgctactcc | cggcagttca | tcacctcctg | 780 |
| cccctgctgg | ctggagatcc | tcctcaacaa | cccagatag | tggcggcccc | ggcgggaggg | 840 |
| gcgggtggga | ggccgcggcc | accgccacct | gccggcctcg | agaggggccc | atgccagag | 900 |
| acacagcccc | cacggacaaa | acccccaga | tatcatctac | ctagatttaa | tataaagttt | 960 |
| tatatattat | atggaaatat | atattatact | tgtaattatg | gagtcatttt | tacaatgtaa | 1020 |
| ttatttatgt | atgggtgcaat | gtgtgtatat | ggacaaaaca | agaaagacgc | actttggctt | 1080 |
| ataattcttt | caatacagat | atattttctt | tctcttcctc | cttcctcttc | cttacttttt | 1140 |
| atatatatat | ataaagaaaa | tgatacagca | gagctaggtg | gaaaagcctg | ggtttggtgt | 1200 |
| atggtttttg | agatattaat | gccagacaa | aaagctaata | ccagtcactc | gataataaag | 1260 |
| tattcgcatt | ataaaaaaga | | | | | 1280 |

<210> 1591
<211> 1800
<212> DNA
<213> Homo sapiens

<400> 1591

| | | | | | | |
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| ggcccgcgct | gctgctgctg | ctgccgcctc | tgctgctgct | gctgctgcgc | gtcccgccca | 120 |
| gccgcagctt | cccaggatcg | ggagactcac | cactagaaga | cgatgaagtc | gggtattcac | 180 |
| accctagata | taaagatacc | ccgtggtgct | cccccatcaa | ggtgaagtat | ggggatgtgt | 240 |
| actgcagggc | ccctcaagga | ggatactaca | aaacagccct | gggaaccagg | tgcgacattc | 300 |
| gctgccagaa | gggctacgag | ctgcatggct | cttcctact | gatctgccag | tcaaacaaac | 360 |
| gatggtctga | caaggatcat | tgcaaacaaa | agcgatgtcc | tacccttgcc | atgccagcaa | 420 |
| atggaggggt | taagtgtgta | gatggtgcct | actttaactc | ccggtgtgag | tattattggt | 480 |
| caccaggata | cacgttgaaa | ggggagcgga | ccgtcacatg | tatggacaac | aaggcctgga | 540 |
| gcggcgccag | cctcctgtgt | ggatatggac | ctcctagaat | caagtgccca | agtgtgaagg | 600 |
| aacgcattgc | agaaccaaac | aaactgacag | tccgtgtctg | ggagacaccc | gaaggaagag | 660 |
| acacagcaga | tgggaattctt | actgatgtca | ttctaaaagg | cctcccccca | ggctccaact | 720 |
| ttccagaagg | agaccacaag | atccagtaca | cagtctatga | cagagctgag | aataagggca | 780 |
| cttgcaaatt | tcgagttaaa | gtaagagtca | aacgctgtgg | caaactcaat | gccccagaga | 840 |
| atggttacat | gaagtgtctc | agcgacggtg | ataattatgg | agccacctgt | gagttctcct | 900 |
| gcacgcggcg | ctatgagctc | cagggtagcc | ctgcccagat | atgtcaatcc | aacctggctt | 960 |
| ggtctggcac | ggagcccacc | tgtgcagcca | tgaacgtcaa | tgtgggtgtc | agaacggcag | 1020 |

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|------|
| ctgcacttct | ggatcagttt | tatgagaaaa | ggagactcct | catttgtgtcc | acacccacag | 1080 |
| cccgaacact | cctttaccgg | ctccagctag | gaatgctgca | gcaagcacag | tgtggccttg | 1140 |
| atcttcgaca | catcaccttg | gtggagctgg | tgggtgtgtt | cccgactctc | attggcagga | 1200 |
| taggagcaaa | gattatgcct | ccagccctag | cgctgcagct | caggctgttg | ctgcgaatcc | 1260 |
| cactctactc | cttcagtatg | gtgctagtgg | ataagcatgg | catggacaaa | gagcgctatg | 1320 |
| tctccctggt | gatgcctgtg | gcctgtttca | acctgattga | cacttttccc | ttgagaaaag | 1380 |
| aagagatggt | cctacaagcc | gaaatgagcc | agacctgtaa | cacctgacat | gatggttcct | 1440 |
| ctcttggcaa | ttcctcttca | ttgtctacat | agtgcacatg | acacgggaaa | gccttaaaaa | 1500 |
| tatccttgat | gtacagattt | tatttgtaat | ttaaaagtct | atctttattat | gagctttctt | 1560 |
| gcacttaaaa | attagcatgc | tgctttttgt | acttgggaagt | gtttcaaaaa | attatatgac | 1620 |
| catatttact | ctttctaact | ttctttactc | catcatggct | ggttgatttt | gtagagaaat | 1680 |
| tagaaccat | aaccatacac | aggctatcaa | catgttattc | aatgtgacac | ctaactcttt | 1740 |
| tctattttgt | tttttaagta | agacttttat | taataaaaaca | aaatgttttg | gaaaaaaaaa | 1800 |

<210> 1592
 <211> 577
 <212> DNA
 <213> Homo sapiens

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| gagctccgac | ggcactgacg | gccatggcgc | gttcgaacct | cccgtggcg | ctgggcctgg | 60 |
| ccctggtcgc | attctgcctc | ctggcgctgc | cacgcgatgc | ccgggcccgg | ccgcaggagc | 120 |
| gcatggtcgg | agaactccgg | gacctgtcgc | ccgacgaccc | gcaggtgcag | aaggcggcgc | 180 |
| aggcggccgt | ggccagctac | aacatgggca | gcaacagcat | ctactacttc | cgagacacgc | 240 |
| acatcatcaa | ggcgcagagc | cagctggtgg | ccggcatcaa | gtacttcctg | acgatggaga | 300 |
| tggggagcac | agactgccgc | aagaccaggg | tacttgagga | ccacgtcgac | ctcaccactt | 360 |
| gccccctggc | agcagggggc | cagcaggaga | agctgcgctg | tgactttgag | gtccttgtgg | 420 |
| ttccctggca | gaactcctct | cagctcctaa | agcacaactg | tgtgcagatg | tgataagtcc | 480 |
| ccgagggcga | aggccatttg | gtttggggcc | atggtggagg | gcacttcagg | tccgtggggc | 540 |
| gtatctgtca | caataaatgg | ccagtgcctg | ttcttgc | | | 577 |

<210> 1593
 <211> 2061
 <212> DNA
 <213> Homo sapiens

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| <400> 1593 | | | | | | |
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| attcaaagta | gagaacaatc | tttttgattc | cattgttatt | ttaattgtat | acagacatag | 120 |
| gagtctttgc | ataattagac | ttttccttct | ttcaggactg | tggatgcaaa | gccctggacc | 180 |
| cccagacgtt | ataggacatt | actcctcagc | tttgacgccc | ggtgatgtga | agcgaaacac | 240 |
| catttcccct | tttttatggc | ggaagaaaac | agaacacaac | tgcaaagggg | cttttccctc | 300 |
| ccctgctcat | cctctttccc | caaatagaatt | ttggtttgct | gtggactcta | ttctgctgag | 360 |
| gaactgttct | tggtgggcaa | atgtagatct | tgtctactct | gtggcaggaa | aaggcctttt | 420 |
| ctttcatttt | gtaagaaaga | gcacagagtt | cctcctgtac | ctgctccagc | tgtgcctgca | 480 |
| gccccctcac | gccgggtgat | gccattccca | aactgctcag | cccccagcac | tgtggtggcc | 540 |
| acagctgtgg | gtgtcttgct | ggggctggag | tgtgggctgg | gtctgctggg | caacgcggtg | 600 |
| gcgctgtgga | ccttctctgt | ccgggtcagg | gtgtggaagc | cgtacgctgt | ctacctgctc | 660 |
| aacctggccc | tggtgacct | gctgttggtc | gcgtgectgc | ctttcctggc | cgccttctac | 720 |
| ctgagcctcc | aggcttggca | tctgggcccgt | gtgggctgct | gggccctgcg | cttctgctg | 780 |
| gacctcagcc | gcagcgtggg | gatggccttc | ctggccgcgc | tggctttgga | ccggtacctc | 840 |

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------|
| cgtgtggtcc | accctcggct | taaggtcaac | ctgctgtctc | ctcagggcggc | cctggggggtc | 900 |
| tccggcctcg | tctggctcct | gatggtcgcc | ctcacctgcc | cgggcttgct | catctctgag | 960 |
| gccgcccaga | actccaccag | gtgccacagt | ttctactcca | gggcagacgg | ctccttcagc | 1020 |
| atcatctggc | aggaagcact | ctcctgcctt | cagtttgctc | tcccctttgg | cctcatcgtg | 1080 |
| ttctgcaatg | caggcatcat | cagggctctc | cagaaaagac | tccgggagcc | tgagaaacag | 1140 |
| cccaagcttc | agcggggcca | ggcactggtc | accttggtgg | tgggtgctgt | tgctctgtgc | 1200 |
| tttctgccct | gcttctcggc | cagagtcctg | atgcacatct | tccagaatct | ggggagctgc | 1260 |
| agggcccttt | gtgcagtggc | tcatacctcg | gatgtcacgg | gcagcctcac | ctacctgcac | 1320 |
| agtgtcgtca | accccggtgg | atactgcttc | tccagcccca | ccttcaggag | ctcctatcgg | 1380 |
| agggtcttcc | acaccctccg | aggcaaaggg | caggcagcag | agccccaga | tttcaacccc | 1440 |
| agagactcct | attcctgaca | acagccagcg | tcctcaacgc | ccgtgtttat | ggaactacct | 1500 |
| gcgacctaaa | taataattac | tcctactttg | ggattctgga | agaagaagaa | gtcttaagac | 1560 |
| tgcaatacaa | ggatcagagc | ataaacatgg | gcacagttgc | tgcagggtgtg | gtcttatact | 1620 |
| ttgttgacca | gggtggctct | ctgtgatttt | accttgtaga | gtggcaaata | aaaaatgaac | 1680 |
| aagctagaac | ctcctcctac | ccaactatga | tgcagattca | gttgctgaac | tgaaaagtgc | 1740 |
| ggcagctact | ccatctccac | acttgaagaa | aatgtaattt | gctaaatcag | tgaaggaaga | 1800 |
| gaagaaagcc | gggtgatggc | atctttccaa | ctcttacttg | gtctcagcaa | gtcattttca | 1860 |
| tttattatgc | ttcagtttta | aatacaaaaa | aaaaactatg | ttttcttccc | acctgctgtg | 1920 |
| cagactgggg | atgaccgaca | tcagaaagtg | ccctggttct | aaaaagagac | tctgctgtat | 1980 |
| ataaggtact | gtcgtacatg | ctagccttta | tttggaacat | aacatttttg | ttttcataaa | 2040 |
| attttgcttc | atttttctag | a | | | | 2061 |

<210> 1594
 <211> 4244
 <212> DNA
 <213> Homo sapiens

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| <400> 1594 | ggcgcagtag | cagcgagcag | cagagtccgc | acgctccggc | gaggggcaga | agagcgcgag | 60 |
| ggagcgcggg | gcagcagaag | cgagagccga | gcgcggaccc | agccaggacc | cacagccctc | | 120 |
| cccagctgcc | caggaagagc | cccagccatg | gaacaccagc | tcctgtgctg | cgaaagtggaa | | 180 |
| accatccgcc | gcgcgtaccc | cgatgccaac | ctcctcaacg | accgggtgct | gcgggccatg | | 240 |
| ctgaaggcgg | aggagacctg | gcgcgcctcg | gtgtcctact | tcaaagtgtg | gcagaaggag | | 300 |
| gtcctgccgt | ccatgcggaa | gatcgtcgcc | acctggatgc | tggaggctctg | cgaggaacag | | 360 |
| aagtgcgagg | aggaggtctt | cccgtcgcc | atgaactacc | tggaccgctt | cctgtcgtctg | | 420 |
| gagcccgtga | aaaagagccg | cctgcagctg | ctgggggcca | cttgcatgtt | cgtggcctct | | 480 |
| aagatgaagg | agaccatccc | cctgacggcc | gagaagctgt | gcattctacac | cgacaactcc | | 540 |
| atccggcccc | aggagctgct | gcaaagtggag | ctgctcctgg | tgaacaagct | caagtggaa | | 600 |
| ctggccgcaa | tgaccccgca | cgatttcatt | gaacacttcc | tctccaaaat | gccagaggcg | | 660 |
| gaggagaaca | aacagatcat | ccgcaaacac | gcgcagacct | tcggtgccct | ctgtgccaca | | 720 |
| gatgtgaagt | tcattttccaa | tccgccctcc | atggtggcag | cggggagcgt | ggtggccgca | | 780 |
| gtgcaaggcc | tgaacctgag | gagccccaac | aacttcctgt | cctactaccg | cctcacacgc | | 840 |
| ttcctctcca | gagtgatcaa | gtgtgaccca | gaactgcctcc | gggcctgcc | ggagcagatc | | 900 |
| gaagccctgc | tggagtcaag | cctgcgccag | gcccagcaga | acatggaccc | caaggccgcc | | 960 |
| gaggaggagg | aagaggagga | ggaggagggtg | gacctggctt | gcacaccac | cgacgtgcgg | | 1020 |
| gacgtggaca | tctgagggcg | ccaggcaggc | gggcgccacc | gccaccgcga | gcgagggcg | | 1080 |
| agccggcccc | aggtgctcca | ctgacagtcc | ctcctctccg | gagcattttg | ataccagaag | | 1140 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggaaagcttc | attctccttg | ttgttggttg | ttttttcctt | tgtcttttcc | cccttccatc | 1200 |
| tctgacttaa | gcaaaagaaa | aagattaccc | aaaaactgtc | tttaaaagag | agagagagaa | 1260 |
| aaaaaaaaata | gtatttgcat | aaccctgagc | gggtgggggag | gaggggtgtg | ctacagatga | 1320 |
| tagaggattt | tatacccca | taatcaactc | gtttttatat | taatgtactt | gtttctctgt | 1380 |
| tgtaagaata | ggcattaaca | caaaggaggc | gtctcgggag | aggattaggt | tccatccttt | 1440 |
| acgtgtttta | aaaaaagcat | aaaaacattt | taaaaacata | gaaaaattca | gcaaaccatt | 1500 |
| tttaaagtag | aagagggttt | taggtagaaa | aacatattct | tgtgcttttc | ctgataaagc | 1560 |
| acagctgtag | tggggttcta | ggcatctctg | tactttgctt | gctcatatgc | atgtagtcac | 1620 |
| tttataagtc | attgtatggt | attatattcc | gtaggtagat | gtgtaacctc | ttcaccttat | 1680 |
| tcattggctga | agtcacctct | tggttacagt | agcgtagcgt | ggccgtgtgc | atgtcctttg | 1740 |
| cgctgttgac | caccacccca | acaaaccatc | cagtgcacaa | ccatccagtg | gaggtttgtc | 1800 |
| gggcaccagc | cagcgtagca | gggtcgggaa | aggccacctg | tcccactcct | acgatacgct | 1860 |
| actataaaga | gaagacgaaa | tagtgacata | atatatttcta | ttttttatact | cttcctattt | 1920 |
| ttgtagtga | ctgtttatga | gatgctgggt | ttctacccaa | cggccctgca | gccagctcac | 1980 |
| gtccagggttc | aaccacacgc | tacttggttt | gtgttcttct | tcataattcta | aaaccattcc | 2040 |
| atttccaagc | actttcagtc | caatagggtgt | aggaaatagc | gctgtttttg | ttgtgtgtgc | 2100 |
| agggagggca | gttttcta | ggaatgggtt | gggaatatcc | atgtacttgt | ttgcaagcag | 2160 |
| gactttgagg | caagtgtggg | ccactgtggg | ggcagtggag | gtgggggtgt | tgggaggctg | 2220 |
| cgtgccagtc | aagaagaaaa | aggtttgcat | tctcacattg | ccaggatgat | aagttccttt | 2280 |
| ccttttcttt | aaagaagttg | aagtttagga | atccttttgt | gccaaactgg | gtttgaaagt | 2340 |
| agggacctca | gaggtttacc | tagagaacag | gtgggttttta | agggttatct | tagatgtttc | 2400 |
| acaccggaag | gttttttaaac | actaaaatat | ataatttata | gttaaggcta | aaaagtatat | 2460 |
| ttattgcaga | ggatgttcat | aaggccagta | tgatttataa | atgcaatctc | cccttgattt | 2520 |
| aaacacacag | atacacacac | acacacacac | acacacacaa | accttctgcc | tttgatgtta | 2580 |
| cagattta | acagtttatt | tttaaagata | gatcctttta | taggtgagaa | aaaaacaatc | 2640 |
| tggaagaaaa | aaaccacaca | aagacattga | ttcagcctgt | ttggcgtttc | ccagagtcac | 2700 |
| ctgattggac | aggcatgggt | gcaaggaaaa | ttagggtact | caacctaa | tcgggtccga | 2760 |
| tgaattctta | tcccctgcc | cttccttta | aaaacttagt | gacaaaatag | acaatttgca | 2820 |
| catcttggt | atgtaattct | tgtaattttt | atttaggaag | tgttgaaagg | agggtggcaag | 2880 |
| agtgtggagg | ctgacgtgtg | agggaggaca | ggcgggagga | ggtgtgagga | ggaggctccc | 2940 |
| gaggggaagg | ggcggtgccc | acaccgggga | caggccgcag | ctccattttc | ttattgcgct | 3000 |
| gctaccgttg | acttccaggc | acggtttgga | aatattcaca | tcgcttctgt | gtatctcttt | 3060 |
| cacattgttt | gctgctattg | gaggatcagt | tttttgtttt | acaatgtcat | atactgccat | 3120 |
| gtactagt | tagttttctc | ttagaacatt | gtattacaga | tgcctttttt | gtagtttttt | 3180 |
| ttttttttat | gtgatcaatt | ttgactta | gtgattactg | ctctattcca | aaaaggttgc | 3240 |
| tgtttcacaa | tacctcatgc | ttcacttagc | catggtggac | ccagcgggca | ggttctgcct | 3300 |
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| gccgcgtgcg | tgagaaccgc | gccggtgtcc | ccagagacca | ggctgtgtcc | ctcttctctt | 3420 |
| ccctgcgcct | gtgatgctgg | gcacttcac | tgatcggggg | cgtagcatca | tagtagtttt | 3480 |
| tacagctgtg | ttatwctttg | cgtgtagcta | tggaaagttg | ataattatta | ttattattat | 3540 |
| tataacaagt | gtgtcttacg | tgccaccacg | gcgttgtacc | tgtaggactc | tcattcggga | 3600 |
| tgattggaat | agcttctgga | atgtgttcaa | gttttggtta | tgtttaatct | gttatgtact | 3660 |
| agtgttctgt | ttgttattgt | tttgtaatt | acaccataat | gctaatttaa | agagactcca | 3720 |
| aatctcaatg | aagccagctc | acagtgtgtg | gtgccccggg | cacctagcaa | gctgccgaac | 3780 |

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|------------|------------|------------|------------|------------|-------------|------|
| caaaagaatt | tgcaccccg | tgcgggccc | cgtggttggg | gccctgccct | ggcaggggtca | 3840 |
| tcctgtgctc | ggaggccatc | tcgggcacag | gcccaccccg | ccccaccct | ccagaacacg | 3900 |
| gctcacgctt | acctcaacca | tcctggctgc | ggcgtctgtc | tgaaccacgc | gggggccttg | 3960 |
| agggacgctt | tgtctgtcgt | gatggggcaa | gggcacaagt | cctggatgtt | gtgtgtrtcg | 4020 |
| agaggccaaa | ggctggtggc | aagtgcacgg | ggcacagcgg | agtctgtcct | gtgacgcgca | 4080 |
| agtctgaggg | tctggggcgg | gggcggctgg | gtctgtgcat | ttctggttgc | accgcggcgc | 4140 |
| ttcccagcac | caacatgtaa | ccggcatgtt | tccagcagaa | gacaaaaaga | caaacatgaa | 4200 |
| agtctagaaa | taaaactggt | aaaaccccaa | aaaaaaaaaa | aaaa | | 4244 |

<210> 1595
 <211> 874
 <212> DNA
 <213> Homo sapiens

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| ctctgcctct | tctccctcct | gacccaggtc | accaccgagc | caccaacca | gaagcccaag | 180 |
| aagattgtaa | atgccaagaa | agatgttgtg | aacacaaaga | tgtttgagga | gctcaagagc | 240 |
| cgtctggaca | ccctggccc | ggagggtggc | ctgctgaagg | agcagcaggc | cctgcagacg | 300 |
| gtctgcctga | aggggaccaa | ggtgcacatg | aatgctttc | tggccttcac | ccagacgaag | 360 |
| accttccacg | aggccagcga | ggactgcatc | tcgcgcgggg | gcaccctgag | caccctcag | 420 |
| actggctcgg | agaacgacgc | cctgtatgag | tacctgcgcc | agagcgtggg | caacgaggcc | 480 |
| gagatctggc | tgggcctcaa | cgacatggcg | gccgagggca | cctgggtgga | catgaccggc | 540 |
| gcccgcacgc | cctacaagaa | ctgggagact | gagatcaccg | cgcaaccgga | tggcggcaag | 600 |
| accgagaact | gcgcggtcct | gtcaggcgcg | gccaacggca | agtgggttcga | caagcgctgc | 660 |
| cgcgatcagc | tgccctacat | ctgccagttc | gggatcgtgt | agccggcggg | gcggggggcg | 720 |
| tggggggcct | ggaggagggc | aggagccgcg | ggaggccggg | aggaggggtg | ggaccttgca | 780 |
| gcccccatcc | tctccgtgcg | cttggagcct | ctttttgcaa | ataaagttgg | tgcacgttcg | 840 |
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
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| tgcagaaggt | gaccttgggc | ctgcttgtgt | tcctggcagg | ctttcctgtc | ctggacgcca | 120 |
| atgacctaga | agataaaaac | agtcctttct | actatgactg | gcacagcctc | cagggttgcg | 180 |
| ggctcatctg | cgctgggggt | ctgtgcgcca | tgggcatcat | catcgtcatg | agtgcaaaat | 240 |
| gcaaattgcaa | gtttggccag | aagtccggtc | accatccagg | ggagactcca | cctctcatca | 300 |
| ccccaggctc | agcccaaagc | tgatgaggac | agaccagctg | aaattgggtg | gaggaccgtt | 360 |
| ctctgtcccc | aggtcctgtc | tctgcacaga | aacttgaact | ccaggatgga | attcttcctc | 420 |
| ctctgctggg | actcctttgc | atggcagggc | ctcatctcac | ctctcgcaag | agggctctct | 480 |
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<210> 1597
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caaggccatg gcagacgagc tgagcgagaa gcaagtgtac gacgcgcaca ccaaggagat 180
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taagtattat gtctcttctg agctatttca tctatttttg gcagtctgaa tttttaaaac 780
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<212> DNA
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| | | | | | | |
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| gtgcgcttac | ctgccagact | gcgcgccatg | gggcaacccg | ggaacggcag | cgccttcttg | 1620 |
| ctggcaccca | atagaagcca | tgcgccggac | cacgacgtca | cgcagcaaag | ggacgaggtg | 1680 |
| tgggtggtgg | gcatgggcat | cgtcatgtct | ctcatcgtcc | tggccatcgt | gtttggcaat | 1740 |
| gtgctggtca | tcacagccat | tgccaagtcc | gagcgtctgc | agacggtcac | caactacttc | 1800 |
| atcacttcac | tggcctgtgc | tgatctggtc | atgggcctgg | cagtggtgcc | ctttggggcc | 1860 |
| gcccatattc | ttatgaaaat | gtggactttt | ggcaacttct | ggtgcgagtt | ttggacttcc | 1920 |
| attgatgtgc | tgtgcgtcac | ggccagcatt | gagaccctgt | gcgtgatcgc | agtggatcgc | 1980 |
| tactttgcca | ttacttcacc | tttcaagtac | cagagcctgc | tgaccaagaa | taaggcccgg | 2040 |
| gtgatcattc | tgatggtgtg | gattgtgtca | ggccttacct | ccttcttgcc | cattcagatg | 2100 |
| cactggtacc | gggccaccca | ccaggaagcc | atcaactgct | atgccaatga | gacctgctgt | 2160 |
| gacttcttca | cgaaccaagc | ctatgccatt | gcctcttcca | tcgtgtcctt | ctacgttccc | 2220 |
| ctggtgatca | tggctcttcgt | ctactccagg | gtctttcagg | aggccaaaag | gcagctccag | 2280 |
| aagattgaca | aatctgaggg | ccgcttccat | gtccagaacc | ttagccaggt | ggagcaggat | 2340 |
| gggcgagcgg | ggcatggact | ccgcagatct | tccaagttct | gcttgaagga | gcacaaagcc | 2400 |
| ctcaagacgt | taggcatcat | catgggcact | ttcaccctct | gctggctgcc | cttcttcac | 2460 |
| gttaacattg | tgcatgtgat | ccaggataac | ctcatccgta | aggaagttta | catcctccta | 2520 |
| aattggatag | gctatgtcaa | ttctggtttc | aatcccctta | tctactgccg | gagcccagat | 2580 |
| ttcaggattg | ccttccagga | gcttctgtgc | ctgcgcaggt | cttctttgaa | ggcctatggg | 2640 |
| aatggctact | ccagcaacgg | caacacaggg | gagcagagtg | gatatcacgt | ggaacaggag | 2700 |
| aaagaaaata | aactgctgtg | tgaagacctc | ccaggcacgg | aagactttgt | gggccatcaa | 2760 |
| ggtactgtgc | ctagcgataa | cattgattca | caagggagga | attgtagtac | aaatgactca | 2820 |
| ctgctgtaaa | gcagtttttc | tactttttaa | gacccccccc | cccccaacag | aacactaaac | 2880 |
| agactattta | acttgagggt | aataaactta | gaataaaatt | gtaaaaattg | tatagagata | 2940 |
| tgcagaagga | agggcatcct | tctgcctttt | ttattttttt | aagctgtaaa | aagagagaaa | 3000 |
| acttatttga | gtgattattt | gttatttgta | cagttcagtt | cctctttgca | tgggaatttg | 3060 |
| aagtttatgt | ctaaagagct | ttagtcctag | aggacctgag | tctgctatat | tttcatgact | 3120 |
| tttccatgta | tctacctcac | tattcaagta | ttaggggtaa | tatattgctg | ctggtaattt | 3180 |
| gtatctgaag | gagattttcc | ttcctacacc | cttggaactg | aggattttga | gtatctcgga | 3240 |
| cctttcagct | gtgaacatgg | actcttcccc | cactcctctt | atttgctcac | acgggggtatt | 3300 |
| ttaggcaggg | atttgaggag | cagcttcagt | tgttttcccg | agcaaaggtc | taaagtttac | 3360 |
| agtaaataaa | atgtttgacc | atgccttcat | tgcacctgtt | tgtccaaaac | cccttgactg | 3420 |
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<220>
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| | aagtgactgc | agcagcagcg | gcagcgcttc | ggttcctgag | cccaccgcag | gctgaaggca | 180 |
| | ttgcgcgtag | tccatgcccc | tagaggaagt | gtgcagatgg | gattaacgtc | cacatggaga | 240 |
| | tatggaagag | gaccggggat | tggtagcgta | accatgggtc | gctgggggtc | tttcatctgc | 300 |
| | ctggtcgtgg | tcaccatggc | aaccttgtcc | ctggccccgc | cctccttcag | tttagttgag | 360 |

| | | | | | | |
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| gataccacat | tagagccaga | agagccacca | accaaatacc | aaatctctca | accagaagtg | 420 |
| tacgtggctg | cgccagggga | gtcgctagag | gtgcgctgcc | tgttgaaaga | tgccgccgtg | 480 |
| atcagttgga | ctaaggatgg | ggtgcacttg | gggcccaaca | ataggacagt | gcttattggg | 540 |
| gagtacttgc | agataaaggg | cgccacgcct | agagactccg | gcctctatgc | ttgtactgcc | 600 |
| agtaggactg | tagacagtga | aacttggtac | ttcatggtga | atgtcacaga | tgccatctca | 660 |
| tccggagatg | atgaggatga | caccgatggt | gcggaagatt | ttgtcagtga | gaacagtaac | 720 |
| aacaagagag | caccatactg | gaccaacaca | gaaaagatgg | aaaagcggct | ccatgctgtg | 780 |
| cctgcggcca | acactgtcaa | gtttcgctgc | ccagccgggg | ggaacccaat | gccaaccatg | 840 |
| cgggtggctga | aaaacgggaa | ggagtttaag | caggagcatc | gcattggagg | ctacaaggta | 900 |
| cgaaaccagc | actggagcct | cattatggaa | agtgtggtcc | catctgacaa | gggaaattat | 960 |
| acctgtgtgg | tggagaatga | atacgggtcc | atcaatcaca | cgtaccacct | ggatgttgtg | 1020 |
| gagcgatcgc | ctcaccggcc | catcctccaa | gccggactgc | cggcaaatgc | ctccacagtg | 1080 |
| gtcggaggag | acgtagagtt | tgtctgcaag | gtttacagtg | atgccagacc | ccacatccag | 1140 |
| tggatcaagc | acgtggaaaa | gaacggcagt | aaatacgggc | ccgacgggct | gccctacctc | 1200 |
| aaggttctca | aggccgccgg | tgttaacacc | acggacaaag | agattgaggt | tctctatatt | 1260 |
| cggaatgtaa | cttttgagga | cgctggggaa | tatacgtgct | tggcgggtaa | ttctattggg | 1320 |
| atatcctttc | actctgcatg | gttgacagtt | ctgccagcgc | ctggaagaga | aaaggagatt | 1380 |
| acagcttccc | cagactacct | ggagatagcc | atttactgca | taggggtcct | cttaatcgcc | 1440 |
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| gaggcgggtca | ccgtggccgt | gaagatggtg | aaagatgatg | ccacagagaa | agacctttct | 1860 |
| gatctggtgt | cagagatgga | gatgatgaag | atgattggga | aacacaagaa | tatcataaat | 1920 |
| cttcttgagg | cctgcacaca | ggatgggcct | ctctatgtca | tagttgagta | tgcctctaaa | 1980 |
| ggcaacctcc | gagaatacct | ccgagcccgg | agggcaccgg | ggatggagta | ctcctatgac | 2040 |
| attaaccgtg | ttcctgagga | gcagatgacc | ttcaaggact | tgggtgtcatg | cacctaccag | 2100 |
| ctggccagag | gcatggagta | cttggcttcc | caaaaatgta | ttcatcgaga | tttagcagcc | 2160 |
| agaaatgttt | tggtaacaga | aaacaatgtg | atgaaaatag | cagacttttg | actcgccaga | 2220 |
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| atggctccag | aagccctggt | tgatagagta | tacactcatc | agagtgatgt | ctggtccttc | 2340 |
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| gaggaacttt | ttaagctgct | gaaggaagga | cacagaatgg | ataagccagc | caactgcacc | 2460 |
| aacgaactgt | acatgatgat | gagggactgt | tggcatgcag | tgcctccca | gagaccaacg | 2520 |
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| ttggacctca | gccaacctct | cgaacagtat | tcacctagtt | accctgacac | aagaagttct | 2640 |
| tgttcttcag | gagatgattc | tgttttttct | ccagacccca | tgccttacga | accatgcctt | 2700 |
| cctcagtatc | cacacataaa | cggcagtgtt | aaaacatgaa | tgactgtgtc | tgcctgtccc | 2760 |
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| | | | | | | |
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| gctgtggacc | agtaggactc | aaggtggacg | tgcgttctgc | cttccttggt | aattttgtaa | 3060 |
| taattggaga | agatttatgt | cagcacacac | ttacagagca | caaatgcagt | atatagggtgc | 3120 |
| tggatgtatg | taaatatatt | caaattatgt | ataaatatat | attatatatt | tacaaggagt | 3180 |
| tattttttgt | attgatttta | aatggatgtc | ccaatgcacc | tagaaaattg | gtctctcttt | 3240 |
| ttttaatagc | tatttgctaa | atgctgttct | tacacataat | ttcttaattt | tcaccgagca | 3300 |
| gaggtggaaa | aatacttttg | ctttcagggg | aaatgggtata | acgttaattt | attaataaat | 3360 |
| tggtaatata | caaaacaatt | aatcatttat | agtttttttt | gtaatttaag | tggcatttct | 3420 |
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| tttgaaaaga | gaatatttac | aatatatgac | taatttgggg | aaaatgaagt | tttgatttat | 3540 |
| ttgtgtttaa | atgctgctgt | cagacgattg | ttcttagacc | tcctaaatgc | cccatattaa | 3600 |
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| tacatcagac | aaaatatcgc | cgttgttcct | tctgtactaa | agtattgtgt | tttgctttgg | 4080 |
| aaacacccac | tcactttgca | atagccgtgc | aagatgaatg | cagattacac | tgatcttatg | 4140 |
| tgttacaaaa | ttggagaaag | tatttaataa | aacctgttaa | tttttatact | gacaataaaa | 4200 |
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| aaaaaaaa | | | | | | 4268 |

<210> 1600
 <211> 2279
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| cctccttctt | cccggcactc | gcgctgccgc | ccggcgcgct | ggccaagccg | ctgcccagacc | 180 |
| cgggcctggc | gggggcccgg | gccgcggcgg | cggcgggcggc | agcagcggcc | gaggcggggc | 240 |
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| tggagcccga | ggacgaggtg | gaggacgacc | ccaaggtgac | gctggaggcc | aaggagctgt | 360 |
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| tccccccctt | caaggtgcga | gtcagcggcc | tggacaagaa | ggccaagtat | atcctgctga | 480 |
| tggacattgt | agccgctgac | gattgccgct | ataagttcca | caactcgcgc | tggatggtgg | 540 |
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| agatcgacaa | caaccggttt | gccaagggct | tccgggacac | cgggaacggc | cggcgggaga | 900 |
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| gcgatggcgc | ggagtcagac | gcctcgctgt | gcgacctcc | ccccgcgcgg | gaaccaccca | 1020 |
| cctccccggg | cgcagcggcc | agtccgctgc | gcctgcaccg | ggcccagagct | gaggagaagt | 1080 |

| | | | | | | |
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| cgctaggccg | cagcccggct | ccagacagcg | ccagccccac | tcgcttgacc | gaacccgagc | 1200 |
| gcgcccggga | gcggcggtgt | cccagagagg | gcaaggagcc | ggccgagagc | ggcgggggacg | 1260 |
| gcccgttcgg | cctgaggagc | ctggagaagg | agcgcgccga | agctcggagg | aaggacgagg | 1320 |
| ggcgcaagga | ggcgggccgag | ggcaaggagc | agggcctggc | gccgctggtg | gtgcagacag | 1380 |
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| ttcttatctc | tctgtgctgt | ggaagcaaca | ggaatcaaga | gactgccctc | cttgtccacc | 2400 |
| cacctatgtg | ccaactgttg | taactaggct | cagagatgtg | cacccatggg | ctctgacaga | 2460 |
| aagcagatcc | tcaccctgct | acacatacag | gatttgaact | cagatctgtc | tgataggaat | 2520 |
| gtgaaagcac | ggactcttac | tgctaacttt | tgtgtatcgt | aaccagccag | atcctcttgg | 2580 |
| ttatttgttt | accacttgta | ttattaatgc | cattatccct | gaattccctt | tgccacccca | 2640 |
| ccctccctgg | agtgtggctg | aggaggcctc | catctcatgt | atcatctgga | taggagcctg | 2700 |
| ctggtcacag | cctcctctgt | ctgcccttca | ccccagtggc | cactcagctt | cctacccaca | 2760 |
| cctctgccag | aagatcccct | caggactgca | acaggcttgt | gcaacaataa | atgttggctt | 2820 |
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<210> 1604
 <211> 1599
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | tgtggtggca | gcagctacag | gtgtccagtc | ccagatgcag | gtggtgcagt | ctggggctga | 120 |
| | agtaaagaag | cctgggtcct | cggtgacggt | ctcctgcaag | gcaccttgag | gcaccttcag | 180 |
| | caactatgct | atcagctggg | tgcgacaggc | ccctggacaa | gggcttgagt | ggatgggagg | 240 |
| | gatcatccct | ctttttggta | caccaacctc | ctcacagaac | ttccagggca | gagtcacgat | 300 |
| | taccgaggac | aaatccacca | gcacagccca | catggagctg | atcagcctga | gatctgagga | 360 |
| | cacggccgtg | tattactgtg | cgacagatcg | ctacaggcag | gcaaattttg | accgggcccc | 420 |
| | ggttggctgg | ttcgacccct | ggggccaggg | caccctggtc | accgtctcct | cagcctccac | 480 |
| | caagggccca | tcggtcttcc | ccctggcacc | ctcctccaag | agcacctctg | ggggcacagc | 540 |
| | ggccctgggc | tgctgggtca | aggactactt | ccccgaaccg | gtgacgggtg | cgtggaactc | 600 |

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|------------|------|
| aggcgccctg | accagcgggcg | tgcacacett | cccggctgtc | ctacagtcct | caggactcta | 660 |
| ctccctcagc | agcgtgggtga | ccgtgccctc | cagcagcttg | ggcaccacaga | cctacatctg | 720 |
| caacgtgaat | cacaagccca | gcaacaccaa | ggtggacaag | aaagttgagc | ccaaatcttg | 780 |
| tgacaaaact | cacacatgcc | caccgtgcc | agcacctgaa | ctcctggggg | gaccgtcagt | 840 |
| cttcctcttc | ccccaaaaac | ccaaggacac | cctcatgatc | tcccggaccc | ctgaggtcac | 900 |
| atgctgtggtg | gtggacgtga | gccacgaaga | ccctgaggtc | aagttcaact | ggtacgtgga | 960 |
| cggcgtggag | gtgcataatg | ccaagacaaa | gccgcgggag | gagcagtaca | acagcacgta | 1020 |
| ccgtgtgggtc | agcgtcctca | ccgtcctgca | ccaggactgg | ctgaatggca | aggagtacaa | 1080 |
| gtgcaagggtc | tccaacaaag | ccctcccagc | ccccatcgag | aaaaccatct | ccaaagccaa | 1140 |
| agggcagccc | cgagaaccac | aggtgtacac | cctgccccca | tcccgggatg | agctgaccaa | 1200 |
| gaaccagggtc | agcctgacct | gcctgggtcaa | aggcttctat | cccagcgaca | tgcctgtgga | 1260 |
| gtgggagagc | aatgggcagc | cggagaacaa | ctacaagacc | acgcctcccg | tgctggactc | 1320 |
| cgacggctcc | ttcttctctt | acagcaagct | caccgtggac | aagagcaggt | ggcagcaggg | 1380 |
| gaacgtcttc | tcatgctccg | tgatgcatga | ggctctgcac | aaccactaca | cgcagaagag | 1440 |
| cctctccctg | tctccgggta | aatgagtgcg | acggccggca | agcccccgct | ccccgggctc | 1500 |
| tcgcggtcgc | acgaggatgc | ttggcacgta | ccccgtgtac | atacttcccg | ggcgcccagc | 1560 |
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<210> 1605
 <211> 655
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | aggacaggat | gaggtgcctg | cctgagggtca | cacggcaggg | agtgcagctc | cccctgcccc | 180 |
| | gacctgctga | gccccatcac | ttccgcagat | cctggcattc | tctcagaagc | tgtactacga | 240 |
| | caaggaacag | acagtgagca | tgaaggacaa | tgtcaggccc | ctgcagcagc | tggggcagcg | 300 |
| | cacggtgata | aagtccgggg | ccccgggtcg | gccgctgccc | tggggccctgc | ctgccctgct | 360 |
| | gggccccatg | ctggccctgcc | tgctggccgg | cttcctgcca | tgatggctca | cttctgcacg | 420 |
| | cagcctctct | gttgccctcag | ctctccaagt | tccaggcttc | cggctccttag | ccttcccagg | 480 |
| | tgggacttta | ggcatgatta | aaatatggac | atatttttgg | agaaaccttt | ctcaagtgtg | 540 |
| | tttttagcct | tccacaacta | ccccaccctg | tccccctcca | cccaccctg | ttcctcctgt | 600 |
| | tccagggcgg | gggctttaag | gccaggagat | ttctccaagc | aggtaccacc | aggtg | 655 |

<210> 1606
 <211> 3128
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | tgacctggcc | tgtgccagga | aggaggagga | gtctgcagcc | ctgtgcgggt | caacatccat | 120 |
| | caaggagtcc | agagcaggag | ccaggccagg | cgggagggaa | aggccctggg | aggggctctc | 180 |
| | taatctccca | gccccgactc | tgccccgtca | ctgccgctgc | tcctcattac | tcgctggggc | 240 |
| | tgctgtcgcc | tccccgaagg | gtggccttgt | ccagatagtg | gcaaacctcc | ctgccgtgga | 300 |
| | tgagtcagga | gcattttctt | aagaggaaca | tactggaaa | acaaaatgag | cggggacaca | 360 |
| | gaaaccaaca | gcagtggctg | catttgtggt | acaggctcct | cttccagagc | tcgctgatgc | 420 |
| | ccacctcaga | caggcctgac | cacggcacgg | ctggtgggat | ttgccagtca | cctcaaccag | 480 |
| | ccagttccac | cctcagcttc | tctcagaagg | gagcaccaca | ctcctcaagc | tcagtgaatg | 540 |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| tatccccgca | tgggtggggc | cagagcctgt | gatatctcga | ggtgggctcg | gcaggacacc | 600 |
| ggggtgtgga | agggggaagc | gagcacctga | ctcagacagc | gcgggagctc | gcaggagtca | 660 |
| cgaggccaca | gcgacttcat | tgtctgactg | ggcctggacc | tataaacttc | ccacctcagc | 720 |
| cttgggccaa | gcctggaaga | taaaaatgga | gcaccccatg | gcgcccctca | ctcagattct | 780 |
| cccctgggct | tctcccacgc | agccccagaa | gaggacacac | cagccccaga | gttagcccca | 840 |
| gaggcccctg | agcctcctga | agagccccgc | ctaggagtgc | tgaccgtgac | cgacacaacc | 900 |
| ccagactcca | tgcgctctc | gtggagcgtg | gcccagggcc | cctttgattc | cttcgtggtc | 960 |
| cagtatgagg | acacgaacgg | gcagccccag | gccttgctcg | tggacggcga | ccagagcaag | 1020 |
| atcctcatct | caggcctgga | gcccagcacc | ccctacaggt | tcctcctcta | tggcctccat | 1080 |
| gaagggaagc | gcctggggcc | cctctcagct | gagggcacca | cagggctggc | tcctgctggt | 1140 |
| cagacctcag | aggagtcaag | gccccgcctg | tcccagctgt | ctgtgactga | cgtgaccacc | 1200 |
| agttcactga | ggctcaactg | ggaggcccca | ccgggggcct | tcgactcctt | cctgctccgc | 1260 |
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| ctgatggtgc | cggggacgcg | gcactcggcc | gtgctccggg | acctgcgttc | cgggactctg | 1380 |
| tacagcctga | cactgtatgg | gctgcgagga | ccccacaagg | ccgacagcat | ccagggaacc | 1440 |
| gcccgcaccc | tcagcccagt | tctggagagc | ccccgtgacc | tccaattcag | tgaatcagg | 1500 |
| gagacctcag | ccaaggtcaa | ctggatgccc | ccaccatccc | gggcggacag | cttcaaagtc | 1560 |
| tcctaccagc | tggcggacgg | aggggagcct | cagagtgtgc | aggtggatgg | ccaggcccgg | 1620 |
| accagaaac | tccaggggct | gatcccaggc | gctcgtatg | aggtgaccgt | ggtctcggtc | 1680 |
| cgaggctttg | aggagagtga | gcctctcaca | ggcttctcta | ccacggttcc | tgacggttcc | 1740 |
| acacagttgc | gtgcactgaa | cttgaccgag | ggattcgccg | tgctgactg | gaagcccccc | 1800 |
| cagaatcctg | tggacaccta | tgacgtccag | gtcacagccc | ctggggcccc | gcctctgcag | 1860 |
| gcggagaccc | caggcagcgc | ggtggactac | cccctgcatg | accttgtcct | ccacaccaac | 1920 |
| tacaccgcca | cagtgcgtgg | cctgcggggc | cccaacctca | cttccccage | cagcatcacc | 1980 |
| ttcaccacag | ggctagaggc | ccctcgggac | ttggaggcca | aggaagtgac | ccccgcacc | 2040 |
| gccctgctca | cttggactga | gccccagtc | cggcccgcag | gctacctgct | cagcttccac | 2100 |
| accctgggtg | gacagaacca | ggagatcctg | ctcccaggag | ggatcacatc | tcaccagctc | 2160 |
| cttggcctct | ttgggtccac | ctcctacaat | gcacggctcc | aggccatgtg | gggccagagc | 2220 |
| ctcctgccgc | ccgtgtccac | ctctttcacc | acgggtgggc | tgccgatccc | cttccccagg | 2280 |
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| gaccatcagg | gagtgaactg | gtaccactgg | aagggttcg | agttctcggt | gcccttcacg | 2880 |
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| cagggtcctt | caccacccag | ccgctggagg | aagccttctc | tgccagcgat | ctcgcagcac | 3060 |
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| ccccaaaa | | | | | | 3128 |

<210> 1607
 <211> 5938
 <212> DNA
 <213> Homo sapiens

<400> 1607

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| ggaccagcc | agggcaccac | gctgcccggc | cctgcgccgc | caggcacttc | tttccggggc | 120 |
| tcctagggac | gccagaagga | agtcaacctc | tgtctgttct | ccttggcctg | cggtggacct | 180 |
| tccttttttt | gttgtttttt | tttgtttttc | ccctttcttc | cttttgaatt | aactggcttc | 240 |
| ttggctggat | gttttcaact | tctttcctgg | ctgcgaactt | tttccccaat | tgttttcctt | 300 |
| ttacaacagg | gggagaaagt | gctctgtggt | ccgaggcgag | ccgtgaagtt | gcgtgtgcgt | 360 |
| ggcagtgtgc | gtggcaggat | gtgcgtgcgt | gtgtaacccg | agccgcccga | tctgtttcga | 420 |
| tctgcgccgc | ggagccctcc | ctcaaggccc | gctccacctg | cttggcgggt | acgcggcgct | 480 |
| cgtgggtggt | cgtgccttcg | gagcagctaa | ccggcgggtg | ctgggcgacg | gtggaggagt | 540 |
| atcgttctcg | ctgcttgccc | gagtcagggc | tgagtcaccc | cagctgatgt | agacagtggc | 600 |
| tgccttccga | agagtgcgtg | tttgcattgt | tgtgactctg | cggctgctca | actcccaaca | 660 |
| aaccagagga | ccagccacaa | acttaaccaa | catccccaaa | cccagtttca | cagatgtggg | 720 |
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| agctgaagat | ctctgaaacg | ctgaattttc | tgcactgagc | gtttgacaga | attcattgag | 840 |
| agaacagaga | acatgacaag | tactttctagc | tcagcactgc | tccaactact | gaagctgatt | 900 |
| ttcaaggcta | cttaaaaaaa | tctgcagcgt | acattaatgg | atttctgttg | tgtttaaatt | 960 |
| ctccacagat | tgtattgtaa | atattttatg | aagtagagca | tatgtatata | tttatatata | 1020 |
| cgtgcacata | cattagtagc | actacctttg | gaagtctcag | ctcttgcttt | tcgggactga | 1080 |
| agccagtttt | gcatgataaa | agtggccttg | ttacgggaga | taattgtgtt | ctgttgggac | 1140 |
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| gctggcaatg | atgaaaacta | ctcggtgag | ctgagaaatg | ctaccgcagc | catgaagaac | 1980 |
| caggttgcaa | gatttaatga | cctcaggttt | gtcggtcgaa | gtggaagagg | gaaaagcttc | 2040 |
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| | | | | | | |
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| cctthtcttta | tggaccctat | ttacagagta | gagaaaagaa | aactaactga | cccacttgaa | 4620 |
| gctthtaaaag | agaaatactt | gaggccttct | ccaggattct | tgthttcacc | acaaatgtca | 4680 |
| gctattgaaa | acatggcaga | aaagctagag | agcttcagtg | ccctgaaacc | tgaggccagt | 4740 |
| gagctcttac | agtcagtgcc | ctctatgttc | aacttcaggg | cgctcccaa | tgccctgcca | 4800 |
| gagaaccttc | tgcggaagg | aaaggagcgc | tatacctgca | gatactgtgg | caagatttht | 4860 |
| ccaaggtctg | caaacctaac | acggcacttg | agaaccaca | caggagagca | gccttacaga | 4920 |
| tgcaataact | gtgacagatc | atttagcata | tcttctaact | tgcaaggca | tgthtcgcaac | 4980 |
| atccacaata | aagagaagcc | atttaagtgt | cacttatgtg | ataggtgtht | tggtcaacaa | 5040 |
| accaatttag | acagacacct | aaagaaacat | gagaatggga | acatgtccgg | tacagcaaca | 5100 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tcgtcgcttc | attctgaact | ggaaagtaca | ggtgcgattc | tggatgacaa | agaagatgct | 5160 |
| tacttcacag | aaattcgaaa | tttcattggg | aacagcaacc | atggcagcca | atctcccagg | 5220 |
| aatgtggagg | agagaatgaa | tggcagtcac | tttaaagatg | aaaaggcttt | ggtgaccagt | 5280 |
| caaaattcag | acttgctgga | tgatgaagaa | gttgaagatg | aggtgttggt | agatgaggag | 5340 |
| gatgaagaca | atgatattac | tggaaaaaca | ggaaaggaac | cagtgcacag | taatttacat | 5400 |
| gaaggaaacc | ctgaggatga | ctatgaagaa | accagtgcac | tggagatgag | ttgcaagaca | 5460 |
| tccccagtga | ggtataaaga | ggaagaatat | aaaagtggac | tttctgctct | agatcatata | 5520 |
| aggcacttca | cagatagcct | caaaatgagg | aaaatggaag | ataatcaata | ttctgaagct | 5580 |
| gagctgtctt | cttttagtac | ttcccatgtg | ccagaggaac | ttaagcagcc | gttacacaga | 5640 |
| aagtccaaat | cgcaggcata | tgctatgatg | ctgtcactgt | ctgacaagga | gtccctccat | 5700 |
| tctacatccc | acagttcttc | caacgtgtgg | cacagtatgg | ccagggctgc | ggcggaatcc | 5760 |
| agtgtctatc | agtccataag | ccacgtatga | cgttatcaag | gttgaccaga | gtgggaccaa | 5820 |
| gtccaacagt | agcatggctc | tttcatatag | gactatttac | aagactgctg | agcagaatgc | 5880 |
| cttataaacc | tgcagggtca | ctcatctaaa | gtctagtgc | cttaaactga | atgattta | 5938 |

<210> 1608
 <211> 224
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1608 | | | | | | |
| agaatgttct | gaagcagaac | gagactctga | tcgtgtctct | tttttctttg | aatggctatc | 60 |
| atcatcatct | gaatctgacc | ccgatcgaga | gcggaacgt | ttcctatgat | gttttttaga | 120 |
| tttcttagaa | tgtttcttgt | tctttgaatg | atgatgctga | cattcatgct | caagcacatg | 180 |
| cataaaatct | ttaaataatt | cggttttctt | tcagattcta | gagt | | 224 |

<210> 1609
 <211> 476
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1609 | | | | | | |
| tcgtmncntc | ggttctgaga | aataggcact | ggcaatttac | acatgccttg | ctgtgtaatc | 60 |
| tcactatatt | tgctcaggca | aagtgggaga | agcagcctta | ggttttcatt | ctagagatgc | 120 |
| cggttttccc | acctgatcgg | cttagagttc | acgattgact | gttttggtgt | tcatttcacc | 180 |
| ctctacataa | caagcgggtg | gactagatgc | cttagcaagg | gtccgtgttg | tgtggtgtct | 240 |
| ccagccacgc | actcagctca | atcttagcac | agttaaaaaa | tgcctttcta | gcaagttatc | 300 |
| tgcccagtgc | ctgaaaaagt | atcatttctt | gtgttcaata | aaaaagcctc | ctaatttaat | 360 |
| caaggaccta | tggagataac | tgtcttttag | ttgtggcatt | gcaaggatac | aatgcagag | 420 |
| atatttttaa | agtgatcctt | ctgtaagagt | gaaccacaga | tatgatctgg | nagcaa | 476 |

<210> 1610
 <211> 191
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1610 | | | | | | |
| aaaaccatag | ctttataaat | cagtggaaag | tggcttacag | agagacctat | cagatgtggt | 60 |
| tacatcacat | cttattcact | ttttttaaca | gctctaagtc | tttggcattg | ctatgttcat | 120 |
| attcatgtat | tccctattta | tagctctgat | agcttaactc | tcctagcagt | ctgtctatca | 180 |
| gatgtgcaca | t | | | | | 191 |

<210> 1611
<211> 355
<212> DNA
<213> Homo sapiens

<400> 1611
gccgtccacg ccgctcttga cagtccgagg atcagaagga ctgtacatgg tgaatggacc 60
accacatttt acagaaagca cagtgtttcc aagggaatct gggaagaatt gcaaagtctg 120
tatcttttagt aagggatggg accctgtttt gacctgggca atggagaaaa gtaaataatta 180
tcagtgtcac taccaagggg ctactgcact ccttcgacct cctgaaggca gtttgccttg 240
aattctcacc caaaaatact gtcctggcaa cgtggcagcc ttacactact tctaaagatg 300
gcacacctgg tatacccaac ctacaccttt atgatgtgaa actggggaca tgtttt 355

<210> 1612
<211> 294
<212> DNA
<213> Homo sapiens

<400> 1612
gtactttgtg ggagccagtt cacctccttt cctaaaattc agtgtgatca ccctgttaat 60
ggccacacta gctctgaaat taatttccaa aatctttgta gtagttcata cccactcaga 120
gttataatgg caaacaacaa gaaagcatta gtacaagccc ctccaacac ccttaatttg 180
aatctgaaca tgtaaaatt tgaggaataa agagacattt ttcaatctct ttgtctgggt 240
tgtcccttgt gcttatgggg actccttaat ggcatttcca gcctgttgct gagg 294

<210> 1613
<211> 472
<212> DNA
<213> Homo sapiens

<400> 1613
gacgcgcggg gccacactgc cgccccctag actggcgctg ggactgtggg acaagttggc 60
tgggtccggg cttggggact gcaaccggtc ttctgtgctt caccatctac ataatgaatc 120
ccagtatgaa gcagaaacaa gaagaaatca aagagaatat aaagaatagt tctgtcccaa 180
gaagaactct gaagatgatt cagccttctg catctggatc tcttgttggg agagaaaatg 240
agctgtccgc aggcttgtcc aaaaggaaac atcggaatga ccacttaaca tctacaactt 300
ccagccctgg ggttattgtc ccagaatcta gtgaaaataa aaatcttggg ggagtcaccc 360
aggagtcat t gatcttatg attaaagaaa atccatcctc tcagtattgg aagggaagtgg 420
cagaaaaacg gagaaaggcg ctgtatgaag cacttaagga aaatgagaaa ct 472

<210> 1614
<211> 142
<212> DNA
<213> Homo sapiens

<400> 1614
caaacctggc gtctatacca acatctgccg ctacctggac tggatcaaga agatcatagg 60
cagcaagggc tgattctagg ataagcacta gatctccctt aataaactca caactctctg 120
aaaaaaaaaa aaaaaaaaaa cc 142

<210> 1615
<211> 335
<212> DNA
<213> Homo sapiens

<400> 1615
ggtggatttt cctacagcta ttggtatggt ggtagaaaga gatgacggaa gcacattaat 60
ggaaatagat ggcgataagg caaacaaggc ggtccaccta ctacatagat actaatgtct 120
tgcgtgttcc gagggagaat atgaggccat ttcacctcta aaaaatggga tggttgaaga 180
ctggatagtt tccaagctat tttggatcat acctacaaa tgcagtgtcaa atcagaagcc 240
agtctccatc ctgttctcat gtcagaggca ccctggaata ctagagcaaa gagagagaaa 300

ctaacagatt taatgtgtga cactacaaca tcctt

335

<210> 1616
<211> 529
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1616
gggcggccgn tagctgttgc tgttggggga ccgctcattc ctgccgctgc cgtccctgct 60
gcctcatgcg gccatcggag ttcacctggg ctgcacctca gcatgtgagg cgtctataa 120
ggatggccgg gctggtgtgg ttgcaaatga tgccggtgac cgagttactc cagctgttgt 180
tgcttactca gaaaatgaag agattgttgg attggcagca aaacaaagta gaataagaaa 240
tatttcaaat acagtaatga aagtaaagca gatcctgggc agaagctcca gtgatccaca 300
agctcagaaa tacatcgcg aaagtaaagtg tttagtcatt gaaaaaaatg ggaaattacg 360
atatgaaata gatactggag aagaaacaaa atttgtaaac ccagaagatg ttgccagact 420
gatatttagt aaaatgaaag aaacggcaca ttctgtattg ggctcagatg caaatgatgt 480
agttattact gtcccgtttg attttggaga aaagccaaaa atgcccttg 529

<210> 1617
<211> 427
<212> DNA
<213> Homo sapiens

<400> 1617
catttttatc agtattgtga ataaacttga acacaaatac acgagttcca tgtcatgtct 60
tcagttgtag aagtttttcc tctttaaggt aaagcgacca acttgaactt tctctggcaa 120
cacgattcgc agttatataa gggaatcagt gttcacgtct ctgtatatat ttatttatgt 180
gtaatttaat gggaattgta aatatggtga gtctgtttta agcctttttt ttttttattt 240
atctgatctt gtttacctct tgttttagtgg gttttgaatc ttccttatta gttcttcatg 300
tggttcatgg tactgattta gaaatccagt gtttggggga tttttttctc tgggattcat 360
gaatttagcc ctggtgtagc atggttaaagg tgacaaacag ctggacaaat ttttaaaaag 420
taaaata 427

<210> 1618
<211> 377
<212> DNA
<213> Homo sapiens

<400> 1618
tttttttgt ttttttagtaa actttattgt accgaacaaa aaaaatgatt ttgcaatgat 60
tttctctccc acaaaagcgt gggtgaaaac cagtaactta taaaaatact ttcggactct 120
aataatacat acattcacac cttatcttct gagtatttaa atgggggagg ttcacctgaa 180
aaaaccata gttttttgcc tcaactgacc tgtaaaaaag tccacctata tcaactttct 240
gccaatctgg agaagatctg ttttctttga tctgacgtca tgtgttcaca agcttctaaa 300
atgtttgcc aaattaaagt ctgctggatg gtttttgct taaccatat tcttccattc 360
attccaaata ctatctc 377

<210> 1619
<211> 271
<212> DNA
<213> Homo sapiens

<400> 1619
caaagtgtta aaaatgctga agtcatgtca agtactgtct ggagggtttt ttttaagaaa 60
ggcatttggc atttaactgt ctcttgtttt atttttaagt ttttggaac cttttgacat 120
aaaatgctgc caagtatcta agaaatgtat atactgacag aagatatttg aaagtggaaa 180

attggaaatg aaatatgttg ctgggtgcgt taatcacctc cgcccaggat ttagtcactt 240
gcaggacctc tttatagtct aggatggcag a 271

<210> 1620
<211> 1253
<212> DNA
<213> Homo sapiens

<400> 1620
cggccgggag agtagcagtg ccttggaccc cagctctcct ccccttttct ctctaaggat 60
ggcccagaag gagaactcct acccctggcc ctacggccga cagacggctc catctggcct 120
gagcaccctg cccagcgag tcctccggaa agagcctgtc accccatctg cacttgctct 180
catgagccgc tccaatgtcc agcccacagc tgcccctggc cagaaggtga tggagaatag 240
cagtgggaca cccgacatct taacgcggca cttcacaatt gatgactttg agattggggc 300
tcctctgggc aaaggcaagt ttggaaacgt gtacttggct cgggagaaga aaagccattt 360
catcgtggcg ctcaaggtec tcttcaagtc ccagatagag aaggagggcg tggagcatca 420
gctgcgaga gagatcgaaa tccaggccca cttgcacat cccaacatcc tgcgtctcta 480
caactathtt tatgaccgga gaaggatcta cttgattcta gagtatgcc cccgcgggat 540
gctctacaag gagctgcaca agacctgcac atttgacgag cagcgaacag ccacggtcgg 600
gcggatcatg gaggagtgg cagatgctct aatgtactgc catgggaaga aggtgattca 660
cagagacata aagccagaaa atctgctctt agggctcaag ggagagctga agattgctga 720
cttcggctgg tctgtgcatg cgccctccct gaggaggaag acaatgtgtg gcaccctgga 780
ctacctgcc ccagagatga ttgagggggc catgcacaat gagaaggtgg atctgtgggtg 840
cattggagtg ctttgctatg agctgctggt ggggaaccca ccctttgaga gtgcatcaca 900
caacgagacc tatcgccgca tcgtcaagggt ggacctaaag ttccccgctt ctgtgcccac 960
gggagcccag gacctcatct ccaaactgct caggcataac ccctcggaac ggctgcccct 1020
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tgcccttcaa tctgtgcct gatggctcct gtcattcact cgggtgctgt tgtttgtatg 1140
tctgtgtatg tataggggaa agaagggatc cctaactgtt cccttatctg ttttctacct 1200
cctcctttgt ttaataaagg ctgaagcttt ttgtaaaaaa aaaaaaaaaa ata 1253

<210> 1621
<211> 3088
<212> DNA
<213> Homo sapiens

<400> 1621
gctggaaggg tttctttggc cctgagtga gagagacca gagggaaacac tgaggtgcct 60
gcccaccac tctgtcccgg tttccttcag caggaccagg tgagagaagc catgctggtc 120
gttcagatgc ctttctcctt tcccatggcc cacttcatcc tctttgtctt tacggtttcc 180
actatatttc acgttcagca gcggctagcg aagattcaag ccattgtgga gttaccgggtg 240
cagataccag tgctagcctc aacatcaaag gcaactgggac ccagccagct caggggggatg 300
tggacgatca atgcaatagg ccgcctgggg aaccagatgg gcgagtacgc cacactgtac 360
gccctggcca agatgaacgg gcggcccgcc ttcattcccgg ccagatgca cagcaccctg 420
gccccatct tcagaatcac cctgcccgtg ctgcacagcg ccacggccag caggatcccc 480
tggcagaact accacctgaa cgactggatg gaggaggaat accgccactt cccggggggag 540
tacgtccgct tcaccggcta cccctgctcc tggaccttct accaccacct ccgccaggag 600
atcctccagg agttcaccct gcacgaccac gtgcgggagg agggccagaa gttcctgcgg 660
ggcctgcagg tgaacgggag ccggccgggc acctttgtag ggggccatgt tcgccagggg 720
gactatgtcc atgtcatgcc aaaagtgtgg aaggggggtg tggccgaccg gcgataccta 780
cagcaggccc tggactggtt ccgagctcgc tacagctccc tcattctcgt ggtcaccagt 840

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| aatggcatgg | cctggtgtcg | ggagaacatt | gacacctccc | acggtgatgt | ggtgttttgc | 900 |
| ggcgtatggca | ttgagggctc | acctgccaaa | gattttgctc | tactcacaca | gtgtaaccac | 960 |
| accatcatga | ccattgggac | gttcgggatc | tgggccgcat | acctcacggg | cggagacacc | 1020 |
| atctacctgg | ccaattacac | cctccccgac | tcccccttcc | tcaaaatctt | taagccagag | 1080 |
| gcagccttcc | tgccggagtg | gacagggatt | gccgcagacc | tgtccccctt | actcaagcac | 1140 |
| taatgctggc | ccattctttg | agaccttttc | tccttctctg | cctccctcaa | gatgagtgcc | 1200 |
| cgggcatgag | aagcacatgg | ttccatgagc | aggacccatc | tctcttctgt | gaagatgcgt | 1260 |
| tgggctgcaa | gtaacagaaa | tctcagtga | cagtggcctg | gcgtggtggc | tcatgcctgt | 1320 |
| aatgctcgca | ctttgggagg | ccaggggtggg | tggatcactt | gaggtcagga | gttcaagact | 1380 |
| agcctggcca | acatggtgaa | accccatctc | gactaaaaat | acaaaaatta | gccaggcgtg | 1440 |
| gtggtgcaca | cttgtaatcc | cagctactcg | ggaggctgag | gcaagagaat | cacttgaacc | 1500 |
| caggaggcgg | aggttgacgt | gagccaagat | ggtgccgctg | cactccagcc | tgggtgacac | 1560 |
| agcaagactc | catctcaaaa | aaaaaaaaag | aaaaagaaat | gaacgggttc | aaagaccata | 1620 |
| atcatgcata | tcacataaga | ccagaagtgg | cccagggtcca | gggtcagtta | atttagcagc | 1680 |
| tccacaaagt | catcagtcac | ctgagctcca | tccatcttca | catgctgtgc | taccatttct | 1740 |
| tagctgtatc | atcccatggt | cccaaaaggg | ctgctacaca | tccagccatc | acatgcagat | 1800 |
| aattcctttc | aaaaacagca | gaaagaggct | cgttcttgtc | ttggtccctt | ttgaagaatg | 1860 |
| aatgaaacct | tcctaagcct | tccagcaatt | ccccccaac | tccgatgggt | aggaattgtc | 1920 |
| acatacccat | gtgaccgat | aggaggcaaa | agaaatgaga | cttctgggat | tagtttagcc | 1980 |
| tcagattctg | cagctgagaa | gttgatcagc | cacctctgaa | ggacatgcag | cttgcaaaaa | 2040 |
| attagggtgg | tgttaccaag | gtgaaaaggg | gaaatggctt | tagagtagac | aacagagatg | 2100 |
| ccctgagggg | ttgtgtaggt | tgttactgc | aggaagtccc | ctgggtaaga | aggcaagtgg | 2160 |
| ggtttaaaca | gaccacagat | ctactcatca | aaccagggtg | ccttggcatt | gtgtccaccc | 2220 |
| agagagctca | ctgttttctt | ttctttttct | tttctttttt | tttttttgag | atggagtctt | 2280 |
| gctgcatccc | ccaggctgga | gtgcagtggc | atgatcttgg | ctcactgcag | cctccgcctc | 2340 |
| ccagggttcag | gcgattctcc | tgcctcagcc | tcccgagtgg | ctgggattgc | aggtgcgtgc | 2400 |
| caccacgccc | agctaatttt | gtacgtttag | tggaaatgga | gtttcaccat | gttgggtcagg | 2460 |
| ctggtctcaa | actcctgacc | tcatgatccg | ccttcctcgg | cctcccaagg | tgctgggatt | 2520 |
| acagggtgta | gccactgcgc | ccggccctag | agctcactgt | tttctagtta | gtccatctgg | 2580 |
| aagtggagcc | tttttccagt | ttgcacaaat | gtgccatatt | ggcttgtagc | tggcatgcat | 2640 |
| ccaagtccat | aggtcctgcc | tcttcaatcc | tggctttcta | gggcctggga | tgatcattgc | 2700 |
| tagaactgag | agaccagcct | ggctgagtga | acttcagggc | gttccgttca | ttctttcagt | 2760 |
| aatggttgc | agcacatgtt | ttacatgtca | ggcagtga | ccccccacag | cagccttccc | 2820 |
| tctcagagga | tacatttgta | accattacac | agtcatcaaa | ggaataattt | tttttaataca | 2880 |
| ccagtgtgca | tacagtcatg | gagctgggta | ttcccagcta | ccagggaggc | tgaggtggga | 2940 |
| ggattgcttg | atgccaggag | ttaggggaata | tagtgcaccg | tgattggact | tgcaatagc | 3000 |
| cactgcactg | cggcctggac | gacgtagtga | taccctgact | cttataaata | aataaatgaa | 3060 |
| taaacacaat | tatgactttg | cggatggg | | | | 3088 |

<210> 1622
 <211> 484
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1622
 cttactagac cagaaaagaa cttattccag ataagctttg aatatcaatt cttacataaa 60
 ctttaggcaa acagggaata gtctagtcac caaaggacca ttctcttgcc aatgctgcat 120
 tccttttgca cttttggatt ccatatztat cccaaatgct gttgggcacc cctagaaata 180
 cettgatgtt ttttctatzt atatgcctgc ctttggtact taattttaca aatgctgtaa 240
 tataaagcat atcaagttta tgtgatacgt atcattgcaa gagaatttgt ttcaagattt 300
 ttttttaatz ttccagaaga tggccaatzag aggaacattc aaggggaaat gggggaaaca 360
 taatttagga ggaacaagga acaaaccatz ttctncaaat ttttttttaa aaaaaattaa 420
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 attt 484

<210> 1623
 <211> 462
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1623
 ttccgacacag gcaatzcagg tttttgtact taattatzatg gtgatttttt tacttttttaa 60
 gagcagaaac ggaaattgac ctccccgcca tgtgtttaat attcctcctg cttttacttt 120
 tgtcattttc ttgataatzc taagccttga gagtgtttgt gaaaaagttt tatttcctgt 180
 tatgtataca taattaaatz aaaattcttc agaaaaagtt tgataaattg aattgtggtt 240
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 gctttttgat gttttcctct gctccagctc caaggaagtc aggcacacct ggcatttttag 360
 gctctgatzc cagccccagc agggcgcggt ggtttaagga atttcattg tttaacnggg 420
 cngggtgtga ggaagtcttc ccttaggctt ggggtgggagg gg 462

<210> 1624
 <211> 1887
 <212> DNA
 <213> Homo sapiens

<400> 1624
 ccgtttttgt tcttctaagc aaaagatzct cctctctcta gccgatzctc ccactcagtz 60
 tcatccccgg aatggggccag ggaggaaggt tctatzgatz cgccccgagc tgccaggcga 120
 gcttcgggct ccttaaattc acaggccaac agccccgctc ctctccgctc aggtccccgg 180
 ttgccccggt tccccggccc agctccttgg cctcctctc gtccgtccgc ccctggtggt 240
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| agggtctcag | ccgccgcctc | aaaagagctg | tgtctgaaca | tcagctcctc | catgacaagg | 1080 |
| ggaagtccat | ccaagattta | cggcgacgat | tcttccttca | ccatctgatc | gcagaaatcc | 1140 |
| acacagctga | aatccacccc | gtccgatttg | ggtctgatga | tgagggcaga | tacctaactc | 1200 |
| aggaaactaa | caaggtggag | acgtacaaag | agcagccgct | caagacacct | gggaagaaaa | 1260 |
| agaaaggcaa | gcccgggaaa | cgcaaggagc | aggaaaagaa | aaaacggcga | actcgctctg | 1320 |
| cctggttaga | ctctggagtg | actgggagtg | ggctagaagg | ggaccacctg | tctgacacct | 1380 |
| ccacaacgtc | gctggagctc | gattcacgga | ggcattgaaa | ttttcagcag | agaccttcca | 1440 |
| aggacatatt | gcaggattct | gtaatagtga | acatatggaa | agtattagaa | atattttattg | 1500 |
| tctgtaaata | ctgtaaatac | attggaataa | aactgtctcc | cccattgctc | tatgaaactg | 1560 |
| cacattgggtc | attgtgaata | tttttttttt | tgccaaggct | aatccaatta | ttattatcac | 1620 |
| atltaccata | atltatttttg | tccattgatg | tattttatttt | gtaaattgtat | cttgggtgctg | 1680 |
| ctgaatttct | atltttttttg | taacataatg | cacttttagat | atacatatca | agtatgttga | 1740 |
| taaatgacac | aatgaagtgt | ctctatttttg | tggttgattt | taatgaatgc | ctaaatataa | 1800 |
| ttatccaaat | tgatttttct | ttgtgcatgt | aaaaataaca | gtatttttaa | tttgtaaaga | 1860 |
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<210> 1625
 <211> 1595
 <212> DNA
 <213> Homo sapiens

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| cgtgtaaaca | cactacttat | cattgatgca | tatataaaac | cattttattt | tcgctattat | 180 |
| ttcagaggaa | gcgctctga | tttgtttctt | ttttcccttt | ttgctctttc | tggctgtgtg | 240 |
| gtttggagaa | agcacagttg | gagtagccgg | ttgctaaata | agtcgagcgc | gcgagcggag | 300 |
| acgatgcagc | ggagactggt | tcagcagtgg | agcgtcgcg | tggtcctgct | gagctacgcg | 360 |
| gtgccctcct | gcgggcgctc | ggtggagggt | ctcagccgcc | gcctcaaaag | agctgtgtct | 420 |
| gaacatcagc | tcctccatga | caaggggaag | tcctaccaag | atltacggcg | acgattcttc | 480 |
| cttcaccatc | tgatcgcaga | aatccacaca | gctgaaatca | gagctacctc | ggaggtgtcc | 540 |
| cctaactcca | agccctctcc | caacacaaag | aaccaccccg | tccgatttgg | gtctgatgat | 600 |
| gagggcagat | acctaactca | ggaaactaac | aaggtggaga | cgtacaaaga | gcagccgctc | 660 |
| aagacacctg | ggaagaaaaa | gaaaggcaag | cccgggaaac | gcaaggagca | ggaaaagaaa | 720 |
| aaacggcgaa | ctcgctctgc | ctggtttagac | tctggagtga | ctgggagtgg | gctagaaggg | 780 |
| gaccacctgt | ctgacacctc | cacaacgtcg | ctggagctcg | attcacggta | acaggcttct | 840 |
| ctggcccgtg | gcctcagcgg | ggtgctctca | gctgggtttt | ggagcctccc | ttctgccttg | 900 |
| gcttggacaa | acctagaatt | ttctcccttt | atgtatctct | atcgattgtg | tagcaattga | 960 |
| cagagaataa | ctcagaatat | tgtctgcctt | aaagcagtac | ccccctacca | cacacacccc | 1020 |
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| catcaatcct | ttaccactct | accaaataat | ttcatattca | agcttcagaa | gctagtgacc | 1140 |
| atcttcataa | tttgctggag | aagtgtattt | cttcccttta | ctctcacacc | tgggcaaact | 1200 |
| ttcttcagtg | tttttcattt | cttacgttct | ttcacttcaa | gggagaatat | agaagcattt | 1260 |
| gatattatct | acaaacactg | cagaacagca | tcatgtcata | aacgattctg | agccattcac | 1320 |
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| taaattatgt | tttaaacaca | tgcttaaat | ttgtttaatt | aaatttaact | ctggtttcta | 1440 |
| ccagctcata | caaaataaat | ggtttctgaa | aatgtttaag | tattaactta | caaggatata | 1500 |
| ggtttttctc | atgtatcttt | ttgttcattg | gcaagatgaa | ataatttttc | tagggtaatg | 1560 |

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1595

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<211> 214
<212> DNA
<213> Homo sapiens

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atgtgtacct ccaatagaga gcaagcaaga atgattatga agtaacaaat ttaataaag 180
tattcttggt attaaaaaaaa aaaaaaaaaa aaaa 214

<210> 1627
<211> 415
<212> DNA
<213> Homo sapiens

<220>
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<223> n=a,t,g or c

<400> 1627
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atatggacga caaaagagtt gtacctaaag gaaaaggaga acagattgca agggagcatg 180
gtattagggt ttttgagact agtgcaaaag caaatattaa acatcggaaa agggcggtcc 240
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aaantgttag gntttcagca gtgggagga gggcggtgac aggctgggga ggagccaatg 360
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<210> 1628
<211> 480
<212> DNA
<213> Homo sapiens

<220>
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<223> n=a,t,g or c

<400> 1628
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<210> 1629
<211> 317
<212> DNA
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gaatcataat cgctcctttg cacctctaaa aagatgccct taccctcatt ctggagggct 180
cctgagcctc tgcgtaaggc tgaacgtctc actgactgag ctagtcttct tgttgcctcg 240
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317

<210> 1630
<211> 2283
<212> DNA
<213> Homo sapiens

<220>
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<223> n=a,t,g or c

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 <212> DNA
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 cccttttaaat tttattttat ttttgttggtg ggattcttaa gcagataaga agaaaagaca 180
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| | | | | | | |
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| atgatagtcc | aatttttact | cagtgactgt | tgtagcattt | tcctgtttac | tgattagagt | 2340 |
| gggtattcat | tattcctcag | attgctgaat | cccatcaggc | tggtattatg | aaggaatttg | 2400 |
| attgctttgc | tgcacagcag | gacctgtgct | ttgagatttt | tttttctctt | ttaaaatata | 2460 |
| ctgtaactac | aatgatggta | aagccatggt | aaatgacttg | attgtacttg | gagtaattgc | 2520 |
| acattttttt | ctatgcataa | aaaaatgatg | cagctgttga | gaaaacgaag | tctttttcat | 2580 |
| tttgcagaag | gaaatgatgg | aatttttctg | tacttcagta | tgtgtcaact | gagagtcata | 2640 |
| tacattagtt | ttaatctctt | aatattgaga | atcagggttg | aaaacggatg | agttattatc | 2700 |
| tatggaaatg | tgagaaatgt | ctaatagccc | ataaagtctg | agaaataggt | atcaaaatag | 2760 |
| tttaggaaaa | tgagaggaga | acagtagatt | gctgtggcct | agacttctga | gtaattaata | 2820 |
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<210> 1632
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 <213> Homo sapiens

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| ggaggaactg | ggtgctcctg | cccgtggcc | cctcgcgct | gaggatctat | ctcaggctaa | 120 |
| gaaatggcat | ttcaaaaggc | agtgaagg | acgattcttg | ttggaggagg | tgctcttgca | 180 |
| actgttttag | gactttctca | gtttgctcat | tacagaagga | aacaaatgaa | cctggcctat | 240 |
| gttaaagcag | cagactgcat | ttcagaacca | gttaacagg | agcctccttc | cagagaagct | 300 |
| cagctactga | ctttgcaaaa | cacatctgaa | tttgatatcc | ttgttattgg | aggaggagca | 360 |
| acaggaagtg | gctgtgctgc | agatgctgtc | accagaggac | taaaaacagc | ccttgtagaa | 420 |
| agagatgatt | tctcatcagg | gaccagcagc | agaagcacta | aattgatcca | tggtggtgtg | 480 |
| agatatctgc | agaaggccat | catgaagttg | gatattgagc | agtataggat | ggtaaaagaa | 540 |
| gcccttcatg | agcgtgccaa | cctgctagaa | attgctcccc | atttatcagc | tccattgcct | 600 |
| ataatgcttc | cagttttaca | gtggtggcag | ttaccttact | actgggtagg | aatcaagctg | 660 |
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| gacggacaac | ataacgatgc | acggatgaac | cttgccattg | ctctgactgc | tgccagggtat | 840 |
| ggggctgcca | cagccaatta | catggaggta | gtgagcttgc | tcaagaagac | agacccccag | 900 |
| acagggaaag | tgcatgtgag | cggcgacagg | tgcaaggatg | tcctcacagg | gcaggaattt | 960 |
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| atggatgata | aagacgcagc | agctatctgc | cagccaagtg | ctggtgtcca | tattgtgatg | 1080 |
| cctgggttatt | acagcccaga | gagcatggga | cttcttgacc | cagcgaccag | tgatgggcga | 1140 |
| gttattttct | tcttacctg | gcaaaagatg | acgatcgctg | gcactactga | tactccaact | 1200 |
| gatgttacac | accatccaat | tccttcagaa | gaagatatca | acttcatttt | gaatgaagtg | 1260 |
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| acctatggtg | ataaggcctt | tgaggtggcc | aaaatggcaa | gtgtgactgg | caaaaggtgg | 1680 |
| cctattgttg | gagtacatct | tgtgtcagaa | tttccatata | ttgaagcaga | ggtgaaatat | 1740 |
| gggattaagg | agtatgcctg | cactgctgtg | gatatgattt | cacgtcgtac | tcgcctggcc | 1800 |
| tttctaaatg | tccaggcagc | agaggaagcc | ctaccagga | ttgttgaact | gatgggcagg | 1860 |

0954456 0973004

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| gaactgaatt | gggatgatta | taagaagcag | gaacaacttg | aaacagccag | gaagtttcta | 1920 |
| tattatgaaa | tgggctataa | atctcgatca | gaacagttaa | cagatcgctc | tgaatttagc | 1980 |
| ctactgcctt | cagacattga | caggtataag | aagagatttc | ataagtttga | tgcagaccag | 2040 |
| aaaggcttta | ttaccattgt | tgatgttcag | cgtgtattag | agagtatcaa | tgtccaaatg | 2100 |
| gatgaaaata | cactccatga | aattctaaat | gaagttgatt | tgaataaaaa | tggacagggt | 2160 |
| gaactcaatg | aatttttgca | gctgatgagt | gctattcaaa | aaggaagggt | atctggaagc | 2220 |
| cggcttgcta | tactaatgaa | aactgcagaa | gagaacctcg | acagaagagt | tccaattcca | 2280 |
| gtggaccgta | gttgtggagg | attgtgagtc | tgggcagtaa | atccacagcc | aacaaacata | 2340 |
| gaaacgacaa | atcaccatgt | aacaaccaga | gatgactgaa | accactctga | aataatgaat | 2400 |
| gtggatagct | gcctttttta | acactagaaa | acattccaaa | actttaaggt | gttgggtgat | 2460 |
| ttgccagctt | tatttgctgt | actttatttg | tatttgccat | tcagtctagc | ttttaagtat | 2520 |
| atTTTTTct | ttttctcatt | ttcaatgcac | attagttttg | catctgtttt | gtgacctgtt | 2580 |
| agatgtgaca | cattctcttt | ttgtttattc | ccttattc | | | 2618 |

<210> 1633
 <211> 528
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 1633 | cgccagggag | ctgtgaggca | gtgctgtgtg | gttctctgccg | tccggactct | ttttcctcta | 60 |
| | ctgagattca | tctgtgtgaa | atatgagttg | gcgaggaaga | tcgacctatt | attggcctag | 120 |
| | accaaggcgc | tatgtacagc | ctcctgaaat | gattgggcct | atgcggccccg | agcagttcag | 180 |
| | tgatgaagtg | gaaccagcaa | cacctgaaga | aggggaacca | gcaactcaac | gtcaggatcc | 240 |
| | tgcagctgct | caggagggag | aggatgaggg | agcatctgca | ggccaagggc | cgaagcctga | 300 |
| | agctgatagc | caggaacagg | gtcacccaca | gactgggtgt | gagtgtgaag | atggctctga | 360 |
| | tgggcaggag | atggaccgcg | caaatccaga | ggaggtgaaa | acgcctgaag | aaggtgaaaa | 420 |
| | gcaatcacag | tgtaaaga | aggcacgttg | aaatgatgca | ggctgtcctt | atgttggaag | 480 |
| | tttgttcatt | aaaattctcc | caataaagct | ttacagcctt | ctgcaaaa | | 528 |

<210> 1634
 <211> 2583
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|------------|-----|
| <400> 1634 | gttcccactt | cctcccgccc | caggaaacct | gccatggcct | cctggtgagc | tgtcctcatc | 60 |
| | cactgctcgc | tgcctctcca | gatcttcagt | tgcttcaggc | cactttgaat | gtatatgagc | 120 |
| | cggctcgtag | ggatatcgat | ggcttagctt | gggctcagag | gcctgaaaat | cgccccacc | 180 |
| | aatcacctgt | ttcccccaat | ctaccctcct | gaaggctact | gacaaagact | tcattgtctc | 240 |
| | ctaggagagg | ctgccatata | tcagggtctga | cgtaattcca | tcttaatatc | agttacatta | 300 |
| | taaaaattta | cctcgtgcct | gaggccccag | agcccaagg | tgcaaagcag | taattagtca | 360 |
| | aagttcaact | tcccctccca | ctctgggctc | aggctgtccc | tgagggcctg | tgttttgagt | 420 |
| | ctctttccag | aaccttggtg | tgaacttagg | tcttggcgtc | gggatccctt | tctgtcacac | 480 |
| | tcaggtgacc | tacaggctcc | gctcgacact | gcaaggctta | gaccagttcg | gtccaacaga | 540 |
| | gaaagcaggc | aaccaccatg | tcatttgaaa | acagtttcat | cgggatataa | tctgcaaccc | 600 |
| | atacagtga | tccattttaag | atactctgac | ccatggatcc | cctgggtgca | gccaagccac | 660 |
| | aatggccatg | gcgcgcgtgt | ctggccgcac | tgctatttca | gctgctgggtg | gctgtgtgtt | 720 |
| | tcttctccta | cctgcgtgtg | tcccagagcg | atgccactgg | atccccctagg | gctcccagtg | 780 |
| | ggctctcccc | acaggacacc | actcccaccc | gccccaccct | cctgatcctg | ctatggacat | 840 |
| | ggcctttcca | catccctgtg | gctctgtccc | gctgttcaga | gatgggtgcc | ggcacagccg | 900 |

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|------|
| actgccacat | cactgccgac | cgcaaggtgt | acccacaggc | agacacgggtc | atcgtgcacc | 960 |
| actgggatat | catgtccaac | cctaagtcac | gcctcccacc | ttccccgagg | ccgcagggggc | 1020 |
| agcgctggat | ctggttcaac | ttggagccac | cccctaactg | ccagcacctg | gaagccctgg | 1080 |
| acagatactt | caatctcacc | atgtcctacc | gcagcgactc | cgacatcttc | acgccctacg | 1140 |
| gctggctgga | gccgtgggtc | ggccagcctg | cccacccacc | gctcaacctc | tcggccaaga | 1200 |
| ccgagctggt | ggcctgggag | gtgtccaact | ggaagccgga | ctcagccagg | gtgcgctact | 1260 |
| accagagcct | gcaggctcat | ctcaaggtgg | acgtgtacgg | acgtctccac | aagccctgc | 1320 |
| ccaaggggac | catgatggag | acgtgtccc | ggtacaagtt | ctacctggcc | ttcgagaact | 1380 |
| ccttgacccc | cgactacatc | accgagaagc | tgtggaggaa | cgccctggag | gcctggggccg | 1440 |
| tgcccgtggt | gctgggcccc | agcagaagca | actacgagag | gttcttgcca | cccgcgcct | 1500 |
| tcatccacgt | ggacgacttc | cagagcccca | aggacctggc | ccggtacctg | caggagctgg | 1560 |
| acaaggacca | cgcccgtac | ctgagctact | ttcgctggcg | ggagacgctg | cggcctcgct | 1620 |
| ccttcagctg | ggcactggat | ttctgcaagg | cctgctggaa | actgcagcag | gaatccaggt | 1680 |
| accagacggt | gcgcagcata | gcggcttggt | tcacctgaga | ggccggcatg | gtgcctgggc | 1740 |
| tgccgggaac | ctcatctgcc | tggggcctca | cctgctggag | tcctttgtgg | ccaaccctct | 1800 |
| ctcttacctg | ggacctcaca | cgctgggctt | cacggctgcc | aggagcctct | cccctccaga | 1860 |
| agacttgctt | gctagggacc | tcgcctgctg | gggacctcgc | ctggtgggga | cctcacctgc | 1920 |
| tggggacctc | acctgctggg | gaccttggtt | gctggaggct | gcacctactg | aggatgtcgg | 1980 |
| cggtcgggga | ctttacctgc | tgggacctgc | tcccagagac | cttgccacac | tgaatctcac | 2040 |
| ctgctgggga | cctcacctgc | gagggcctgc | ggccctgggg | aactggctta | cttggggccc | 2100 |
| caccggggag | tgatggttct | ggctgatttg | tttgtgatgt | tgtagccgc | ctgtgagggg | 2160 |
| tgagagaga | tcatcacggc | acggtttcca | gatgtaatac | tgcaaggaaa | aatgatgacg | 2220 |
| tgtctcctca | ctctagaggg | gttggtccca | tgggttaaga | gtcaccccca | ggttctcacc | 2280 |
| tcaggggtta | agagctcaga | gttcagacag | gtccaagtgc | aagcccagga | ccaccactta | 2340 |
| tagggtacag | gtgggatcga | ctgtaaata | ggacttctgg | aacattccaa | atattctggg | 2400 |
| gttgagggaa | attgctgctg | tctacaaaat | gccaaggggtg | gacaggcgct | gtggctcacg | 2460 |
| cctgtaattc | cagcactttg | ggaggctgag | gtaggaggat | tgattgaggc | caagagttaa | 2520 |
| agaccagcct | ggtcaatata | gcaagaccac | gtctctaaat | aaaaaataat | aggccggcca | 2580 |
| gca | | | | | | 2583 |

<210> 1635
 <211> 3076
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| aagtgccttct | aattaaaata | tgatgtcatt | aattatgaaa | tacttcttga | taacagaagt | 120 |
| tttaaaatag | ccatcttaga | atcagtgaag | tatggtaatt | tattattttc | ctcctttgag | 180 |
| ttaggtcttg | tgtttttttt | tcctggccac | taaatttcac | aatttccaaa | aagcaaaata | 240 |
| aacatattct | gaatattttt | gctgtgaaac | acttgacagc | agagctttcc | accatgaaaa | 300 |
| gaagcttcat | gagtcacaca | ttacatcttt | gggttgattg | aatgccactg | aaacattcta | 360 |
| gtagcctgga | gaagttgacc | tacctgtgga | gatgcctgcc | attaaatggc | atcctgatgg | 420 |
| cttaatacac | atcactcttc | tgtgaagggt | tttaattttc | aacacagctt | actctgtagc | 480 |
| atcatgttta | cattgtatgt | ataaagatta | tacaaagggtg | caattgtgta | tttcttcctt | 540 |
| aaaatgtatc | agtataggat | ttagaatctc | catgttgaaa | ctctaaatgc | atagaaataa | 600 |
| aaataataaa | aaatttttca | ttttggcttt | tcagcctagt | attaaaactg | ataaaagcaa | 660 |

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|------|
| agccatgcac | aaaactacct | ccctagagaa | aggctagtcc | cttttcttcc | ccattcattt | 720 |
| cattatgaac | atagtagaaa | acagcatatt | cttatcaaat | ttgatgaaaa | gcgccaacac | 780 |
| gtttgaactg | aaatacgact | tgtcatgtga | actgtaccga | atgtctacgt | attccacttt | 840 |
| tcctgctggg | gttcctgtct | cagaaaggag | tcttgctcgt | gctggtttct | attacactgg | 900 |
| tgtgaatgac | aagggtcaaat | gcttctgttg | tggcctgatg | ctggataact | ggaaaagagg | 960 |
| agacagtcct | actgaaaagc | ataaaaagtt | gtatcctagc | tgcagattcg | ttcagagtct | 1020 |
| aaattccggt | aacaacttgg | aagctacctc | tcagcctact | tttccttctt | cagtaacaaa | 1080 |
| ttccacacac | tcattacttc | cgggtacaga | aaacagtggg | tatttccgtg | gctcttattc | 1140 |
| aaactctcca | tcaaatcctg | taaactccag | agcaaatcaa | gatttttctg | ccttgatgag | 1200 |
| aagttcctac | cactgtgcaa | tgaataacga | aaatgccaga | ttacttactt | ttcagacatg | 1260 |
| gccattgact | tttctgtcgc | caacagatct | ggcaaaagca | ggcttttact | acataggacc | 1320 |
| tggagacaga | gtggcttgct | ttgcctgtgg | tggaaaattg | agcaattggg | aaccgaagga | 1380 |
| taatgctatg | tcagaacacc | tgagacattt | tcccaaattg | ccatttatag | aaaatcagct | 1440 |
| tcaagacact | tcaagataca | cagtttctaa | tctgagcatg | cagacacatg | cagcccgtt | 1500 |
| taaaacattc | tttaactggc | cctctagtgt | tctagttaat | cctgagcagc | ttgcaagtgc | 1560 |
| gggtttttat | tatgtgggta | acagtgatga | tgtcaaatgc | ttttgctgtg | atggtggact | 1620 |
| caggtgttgg | gaatctggag | atgatccatg | ggttcaacat | gccaagtggg | ttccaaggtg | 1680 |
| tgagtacttg | ataagaatta | aaggacagga | gttcatccgt | caagttcaag | ccagttaccc | 1740 |
| tcattacttt | gaacagctgc | tatccacatc | agacagccca | ggagatgaaa | atgcagagtc | 1800 |
| atcaattatc | cattttgaac | ctggagaaga | ccattcagaa | gatgcaatca | tgatgaatac | 1860 |
| tcctgtgatt | aatgctgccg | tggaaatggg | cttttagtaga | agcctggtaa | aacagacagt | 1920 |
| tcaaagaaaa | atcctagcaa | ctggagagaa | ttatagacta | gtcaatgatc | ttgtgttaga | 1980 |
| cttactcaat | gcagaagatg | aaataagggg | agaggagaga | gaaagagcaa | ctgaggaaaa | 2040 |
| agaatcaaat | gatttattat | taatccggaa | gaatagaatg | gcactttttc | aacatttgac | 2100 |
| ttgtgtaatt | ccaatcctgg | atagtctact | aactgccgga | attattaatg | aacaagaaca | 2160 |
| tgatgttatt | aaacagaaga | cacagacgtc | tttacaagca | agagaactga | ttgatacgat | 2220 |
| tttagtaaaa | ggaaatattg | cagccactgt | attcagaaac | tctctgcaag | aagctgaagc | 2280 |
| tgtgttatat | gagcatttat | ttgtgcaaca | ggacataaaa | tatattccca | cagaagatgt | 2340 |
| ttcagatcta | ccagtgggaag | aacaattgcg | gagactacaa | gaagaaagaa | catgtaaagt | 2400 |
| gtgtatggac | aaagaagtgt | ccatagtgtt | tattccttgt | ggtcatctag | tagtatgcaa | 2460 |
| agattgtgct | ccttctttta | gaaagtgtcc | tattttagtg | agtacaatca | agggtagact | 2520 |
| tcgtacattt | ctttcatgaa | gaagaaccaa | aacatcatct | aaacttttaga | attaatttat | 2580 |
| taaatgtatt | ataactttta | cttttatcct | aatttggttt | cottaaaatt | tttattttatt | 2640 |
| tacaactcaa | aaaacattgt | tttgtgtaac | atatttatat | atgtatctaa | accatatgaa | 2700 |
| catatatatt | ttagaaacta | agagaatgat | aggcttttgt | tcttatgaac | gaaaaagagg | 2760 |
| tagcactaca | aacacaatat | tcaatcaaaa | tttcagcatt | attgaaattg | taagtgaagt | 2820 |
| aaaacttaag | atatttgagt | taacctttta | gaatttttaa | tattttggca | ttgtactaat | 2880 |
| acctggtttt | ttttttgttt | tgtttttttg | tacagacagg | gcagcatact | gagaccctgc | 2940 |
| ctttaaaaac | aaacagaaca | aaaacaaaac | accagggaca | catttctctg | tcttttttga | 3000 |
| tcagtgtcct | atacatcgaa | ggtgtgcata | tatgttgaat | gacatttttag | ggacatggtg | 3060 |
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<210> 1636
 <211> 14796
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | cacaggccac | tgcttcccc | cgtctttctc | agccattcct | gaagtcagcc | tcactctgct | 180 |
| | tctcagggat | ttcaaagtgtg | cagagactct | ggcacttttg | tagaagcccc | ttctgggtcct | 240 |
| | aacttacacc | tggatgctgt | ggggctgcag | ctgctgctcg | ggctcgggag | gatgctgggg | 300 |
| | gcccgggtgcc | catgagcttt | tgaagctcct | ggaactcggg | tttgaggggtg | ttcaggtcca | 360 |
| | ggtggacacc | tgggctgtcc | ttgtccatgc | atttgatgac | attgtgtgca | gaagtgaana | 420 |
| | ggagttaggc | cgggcatgct | ggcttatgcc | tgtaatccca | gcactttggg | aggctgaggc | 480 |
| | gggtggatca | cgaggtcagg | agttcaatac | cagcctggcc | aagatgggtga | aaccccgctc | 540 |
| | ctactaaaaa | tacaaaaaaa | ttagccgggc | atggtggcgg | gcgcagttaa | tcccagctac | 600 |
| | tgggggggct | gaggcagaga | attgctggaa | cccaggagat | ggaggttgca | gtgagccaag | 660 |
| | attgtgccac | tgactgcac | tccagcctgg | cgacagagca | agactctgtc | tcaaaaaaaa | 720 |
| | aaaaaaaaag | tgaaaaggag | ttgttccttt | cctccctcct | gagggcaggc | aactgctgcg | 780 |
| | gttgccagtg | gaggtggtgc | gtccttggtc | tgtgcctggg | ggccacccca | gcagaggcca | 840 |
| | tgggtggtgcc | agggcccggg | tagcgagcca | atcagcagga | cccagggggc | acctgccaaa | 900 |
| | gtcaactgga | tttgataact | gcagcgaagt | taagtttctc | gatttttgatg | attgtgttgt | 960 |
| | ggttgtgtaa | gagaatgaag | tatttcgggg | tagtatggta | atgccttcaa | cttacaaacg | 1020 |
| | gttcaggtaa | accaccata | tacatacata | tacatgcatg | tgatatatac | acatacaggg | 1080 |
| | atgtgtgtgt | gttcacatat | atgaggggag | agagactagg | ggagagaaaag | taggttgggg | 1140 |
| | agagggagag | agaaaggaaa | acaggagaca | gagagagagc | ggggagtaga | gagagggaag | 1200 |
| | gggtaagaga | gggagaggag | gagagaaaag | gaggaagaag | cagagagtga | atgttaaagg | 1260 |
| | aaacaggcaa | aacataaaca | gaaaatctgg | gtgaagggtga | tatgagtatt | ctttgtacta | 1320 |
| | ttcttgcaat | tatcttttat | ttaaattgac | atcggggccg | gcgcagtggc | tcacatctgt | 1380 |
| | aatcccagca | ctttgggagg | ccgaggcagg | cagatcactt | gaggtcagga | gtttgagacc | 1440 |
| | agcctggcaa | acatggtgaa | accccatctc | tactaaaaat | acaaaaatta | gcctggtgtg | 1500 |
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| | aagaatgggg | gcgggggtggg | aggggtgggg | agaggttgca | aaaataaata | aataaataaa | 1740 |
| | taaaccctaa | aatgaaaaag | acagtggagg | caccaggcct | gcgtgggggt | ggaggggctaa | 1800 |
| | taaggccagg | cctcttatct | ctggccatag | aaccagagaa | gtgagtggat | gtgatgccca | 1860 |
| | gctccagaag | tgactccaga | acaccctggt | ccaaagcaga | ggacacactg | attttttttt | 1920 |
| | taataggctg | caggacttac | tggttggtggg | acgccctgct | ttgcgaaggg | aaaggaggag | 1980 |
| | tttgccctga | gcacaggccc | ccaccctcca | ctgggctttc | cccagctccc | ttgtcttctt | 2040 |
| | atcacggtag | tggcccagtc | cctggcccct | gactccagaa | ggtggccctc | ctggaaaccc | 2100 |
| | aggctcgtgca | gtcaacgatg | tactcgccgg | gacagcgatg | tctgctgcac | tccatccctc | 2160 |
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| | gctaattttt | gtatttttag | tagagacaag | gtttcaccgt | gatggccagg | ctggtcttga | 2460 |
| | actccaggac | tcaagtgatg | ctcctgccta | ggcctctcaa | agtgttggga | ttacaggcgt | 2520 |
| | gagccactgc | accgggcctg | cacgcgttct | ttgaaagcag | tcgagggggc | gctaggtgtg | 2580 |
| | ggcagggacg | agctggcgcg | gcgtcgctgg | gtgcaccgcg | accacgggca | gagccacgcg | 2640 |

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| gcgggaggac | tacaactccc | ggcacacccc | gcgccgcccc | gcctctactc | ccagaaggcc | 2700 |
| gcggggggtg | gaccgcctaa | gagggcggtg | gctccccgaca | tgccccgcgg | cgcgccatta | 2760 |
| accgccagat | ttgaatcgcg | ggacccgttg | gcagaggtgg | cggcggcggc | atgggtgccc | 2820 |
| cgacgttgcc | ccctgcctgg | cagccctttc | tcaaggacca | ccgcatctct | acattcaaga | 2880 |
| actggccctt | cttggagggc | tgcgccctgca | ccccggagcg | ggtgagactg | cccggcctcc | 2940 |
| tggggtcccc | cacgcccgcc | ttgccctgtc | cctagcgagg | ccactgtgac | tgggcctcgg | 3000 |
| gggtacaagc | cgccctcccc | tccccgtcct | gtccccagcg | aggccactgt | ggctgggccc | 3060 |
| cttgggtcca | ggccggcctc | ccctccctgc | tttgtcccca | tcgaggcctt | tgtggctggg | 3120 |
| cctcgggggtt | ccgggctgcc | acgtccactc | acgagctgtg | ctgtcccttg | cagatggccg | 3180 |
| aggctggctt | catccactgc | cccactgaga | acgagccaga | cttggcccag | tgtttcttct | 3240 |
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| ctctctatat | gctggtgcct | tggatgatgt | tacaacctaa | ttaaatctca | tttgaccaa | 3480 |
| atgccttggg | gtggacgtaa | gatgcctgat | gcctttcatg | ttcaacagaa | tacatcagca | 3540 |
| gaccctgttg | ttgtgaactc | ccaggaatgt | ccaagtgcct | tttttgagat | tttttaaaaa | 3600 |
| acagtttaat | tgaaatataa | cctacacagc | acaaaaatta | ccctttgaaa | gtgtgcactt | 3660 |
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| gccaacttgg | cgaaaccccg | tctctactaa | aaatacaaaa | attagccggg | catggtagcg | 3780 |
| cacgcccgtg | atcccagcta | ctcgggaggg | taaggcagga | gaatcgcttg | aacctgggag | 3840 |
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| cctccccaa | gcttccatag | atcctctctg | tacattgtaa | cctttttattt | tgaaatgaaa | 14760 |
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<210> 1637
 <211> 389
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 1637 | | | | | | |
| cattttttctc | tggaatatat | tggccttcta | cagctattac | tgaattatag | aaactggttt | 60 |
| atcttctggca | gaaagctgca | gtgccacctg | agttccaaat | tttaccattc | tttgtaaaca | 120 |
| gttggtatgga | ttatgataaa | gaagatgcta | ccaatgaaat | agaaaaccaa | cgagatgaga | 180 |
| agactgatcc | tcatgtactc | agaggcactt | ccctcctaag | tcaaagacca | tcctcactga | 240 |
| ctatgtgccca | acgcctcggt | tcaggcttgt | gactcaacaa | agggcttttc | cattgataga | 300 |
| agcagtttgg | gatttgtagt | tgcgacttct | tccgatagtt | acctgcacgt | ccattgctgg | 360 |
| caactgactt | gtcattaaaa | cctggctctc | | | | 389 |

<210> 1638
 <211> 448
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1638 | | | | | | |
| cagcaacatg | aagttggcag | ccttcctcct | cctgtgatcc | tcatcatctt | cagcctagag | 60 |
| gtacaagagc | ttcaggctgc | aggagaccgg | cttttggtga | cctgcgtcga | gctctgcaca | 120 |
| ggtgactggg | actgcaaccc | cggagaccac | tgtgtcagca | atgggtgtgg | ccatgagtgt | 180 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| gttgcagggt | aaggacaggt | aaaaacacca | ggccctccct | gctttctgaa | acgttggtca | 240 |
| gtctagatga | agagttatct | taaggatcat | ctttccctaa | gatcgatcat | ccttcctgga | 300 |
| gttcctatct | tccaagatgt | gactgtctgg | agttccctga | ctaggaagat | ggatgaaaac | 360 |
| agcaagcctg | tggatggaga | ctacagggga | tatgggaggg | aggggaagagg | ggttgtttct | 420 |
| tttaataaat | catcattggt | aaaaagca | | | | 448 |

<210> 1639
 <211> 3212
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|------|
| <400> 1639 | | | | | | |
| gaattccccgc | tcggccccgc | acctgccccg | agccctctcc | atggaggcag | cccgccctc | 60 |
| cggctcctgg | aacggagccc | tctgccggct | gctcctgctg | accctcgca | tcttaatat | 120 |
| tgccagtgat | gcctgcaaaa | atgtgacatt | acatgttccc | tccaaactag | atgccgagaa | 180 |
| acttggttgt | agagttaacc | tgaaagagtg | ctttacagct | gcaaactctaa | ttcattcaag | 240 |
| tgatcctgac | ttccaaatct | tggaggatgg | ttcagctctat | acaacaaata | ctattctatt | 300 |
| gtcctcggag | aagagaagtt | ttaccatatt | actttccaac | actgagaacc | aagaaaagaa | 360 |
| gaaaatattt | gtcttttttg | agcatcaaac | aaaggtccta | aagaaaagac | atactaaaga | 420 |
| aaaagttcta | aggcgcgcca | agagaagatg | ggctccaatt | ccttggttcga | tgctagaaaa | 480 |
| ctccttggtg | ccttttccac | ttttccttca | acaggttcaa | tctgacacgg | cccaaaacta | 540 |
| taccatatac | tattccataa | gaggtcctgg | agttgaccaa | gaacctcgga | atttatttta | 600 |
| tgtggagaga | gacactggaa | acttgatttg | tactcgtcct | gtagatcgtg | agcagtatga | 660 |
| atcttttgag | ataattgcct | ttgcaacaac | tccagatggg | tatactccag | aacttccact | 720 |
| gcccctaata | atcaaaatag | aggatgaaaa | tgataactac | ccaattttta | cagaagaaac | 780 |
| ttataacttt | acaatttttg | aaaattgcag | agtggggact | actgtgggac | aagtgtgtgc | 840 |
| tactgacaaa | gatgagcctg | acacgatgca | cacacgcctg | aagtactcca | tcattgggca | 900 |
| ggtgccacca | tcaccacacc | tattttctat | gcacccaact | acaggcgtga | tcaccacaac | 960 |
| atcatctcag | ctagacagag | agttaattga | caagtaccag | ttgaaaataa | aagtacaaga | 1020 |
| catggatggg | cagtattttg | gtctacagac | aacttcaact | tgtatcatta | acattgatga | 1080 |
| tgtaaatgac | cacttgccaa | catttactcg | tacttcttat | gtgacatcag | tggaagaaaa | 1140 |
| tacagttgat | gtggaaatct | tacgagttac | tggtgaggat | aaggacttag | tgaatactgc | 1200 |
| taactggaga | gctaattata | ccatttttaa | gggcaatgaa | aatggcaatt | ttaaaattgt | 1260 |
| aacagatgcc | aaaaccaatg | aaggagttct | ttgtgtagtt | aagcctttga | attatgaaga | 1320 |
| aaagcaacag | atgatcttgc | aaattggtgt | agttaatgaa | gctccatttt | ccagagaggg | 1380 |
| tagtccaaga | tcagccatga | gcacagcaac | agttactggt | aatgtagaag | atcaggatga | 1440 |
| gggcccctgag | tgtaaccctc | caatacagac | tggtcgcgat | aaagaaaatg | cagaagtggg | 1500 |
| aacaacaagc | aatggatata | aagcatatga | cccagaaaca | agaagtagca | gtggcataag | 1560 |
| gtataagaaa | ttaactgac | caacaggggt | ggtcaccatt | gatgaaaata | caggatcaat | 1620 |
| caaagttttc | agaagcctgg | atagagaggg | agagaccatc | aaaaatggca | tatataatat | 1680 |
| tacagtcctt | gcacagacc | aaggagggag | aacatgtacg | gggacactgg | gcattatact | 1740 |
| tcaagacgtg | aatgataaca | gccattcat | acctaaaaag | acagtgatca | tctgcaaacc | 1800 |
| caccatgtca | tctgcggaga | ttggtgcggg | tgatcctgat | gagcctatcc | atggcccacc | 1860 |
| ctttgacttt | agtctggaga | gttctacttc | agaagtacag | agaatgtgga | gactgaaagc | 1920 |
| aattaatgat | acagcagcac | gtctttccta | tcagaatgat | cctccatttg | gctcatatgt | 1980 |
| agtacctata | acagtgagag | atagacttgg | catgtctagt | gtcacttcat | tggatgttac | 2040 |
| actgtgtgac | tgcattaccg | aaaatgactg | cacacatcgt | gtagatccaa | ggattggcgg | 2100 |

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|------|
| tggaggagta | caacttggaa | agtgggccat | ccttgcaata | ttgttgggca | tagcattgct | 2160 |
| cttttgcac | ctgtttacgc | tggctctgtg | ggcttctggg | acgtctaaac | aacaaaaagt | 2220 |
| aattcctgat | gatttagccc | agcagaacct | aattgtatca | aacacagaag | ctcctggaga | 2280 |
| tgacaaagt | tattctgcga | atggcttcac | aaccctaaact | gtgggcgctt | ctgctcaggg | 2340 |
| agtttgtggc | accgtgggat | caggaatcaa | aaacggaggt | caggagacca | tcgaaatggt | 2400 |
| gaaaggagga | caccagacct | cggaaatcctg | ccgggggggct | ggccaccatc | acaccctgga | 2460 |
| ctcctgcagg | ggaggacaca | cggaggtgga | caactgcaga | tacacttact | cggagtggca | 2520 |
| cagttttact | cagccccgtc | ttggtgaaga | atccattaga | ggacacactc | tgattaaaaa | 2580 |
| ttaaacaatg | aaagaaagt | tatctgtgta | atcaagatga | aaatcacaag | catgcccag | 2640 |
| actatgtcct | gacatataac | tatgaaggaa | gaggatcggt | ggctgggtct | gtaggttggt | 2700 |
| gcagtgaacg | acaagaagaa | gatgggcttg | aatttttggg | taatttggag | cccaaattta | 2760 |
| ggacactagc | agaagcatgc | atgaagagat | gagtgtgttc | taataagtct | ctgaaagcca | 2820 |
| gtggctttat | gactttttaa | aaaaattaca | aaccaagaat | tttttaaagc | agaagatgct | 2880 |
| atgtgtgggg | gtttttctct | cattatttgg | atggaatctc | tttgggtcaa | tgcacattta | 2940 |
| cagagagaca | ctataaacia | gtacacaaat | ttttcaattt | ttacatattt | ttaaattact | 3000 |
| tatcttctat | ccaaggaggt | ctacagagaa | attaaagtct | gccttatttg | ttacatttgg | 3060 |
| gtataatgac | aacagccaat | ttatagtga | ataaaatgta | attaattcaa | gtccttatta | 3120 |
| tagactattt | gaagcacaac | ctaattggaa | attgtagaga | ccttgcttta | acattatctc | 3180 |
| cagttaatta | agtgttcacg | tgggtgggaat | tc | | | 3212 |

<210> 1640
 <211> 430
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | |
|------------|--|-----|
| <400> 1640 | | |
| gttgcaacct | tataatttct gctttaatgg caatcaagtt taaaaaatgt acaattccac 60 | |
| ttatccatac | tattccttta taaaaggcag atttcaggta agcttctaaa tgcattgcgt 120 | |
| atgtagaggc | taatattttc tggcagtcct tgggtcctga aatttgaact tcatatgtgt 180 | |
| tttaaacttt | tgtcaaaaata gtcattgaaag atatgttatt tttgcataat gaggtaatat 240 | |
| atcaggggag | ggcactcata agacagtata aatccacttg tctaaacttg catgaggctg 300 | |
| tgtgcattgt | aaaatgccat aaagagtttt gggtcagtga atatttngct gaaggaataa 360 | |
| cattacatt | taactgagca cttttctgta ataaatacca aagtaggttt ttgtagctgt 420 | |
| aaactgtgta | | 430 |

<210> 1641
 <211> 403
 <212> DNA
 <213> Homo sapiens

| | |
|------------|--|
| <400> 1641 | |
| tttttttttt | caaagaaaca ctagcaattt attgattttc tctattttcca aaaaaagcaa 60 |
| atacattagt | gtatcacaca aggaaactgg gcctggccgg cacaagggtc ctctacaaac 120 |
| atgaagcaag | gggaagggtg gctacaggga agctccaaga tccctcacag cagcccccg 180 |
| ttcccttccc | tgccaccccc agccgcagtc ttggtcctgc cagccagttc agccagattc 240 |
| caaggtggac | atgcagacag caaactgcc tcttgggtcc ccaggaggag tgtggagtca 300 |
| gggctgctag | tgtgggtccc actgcagagg tggctgggtg ccaatgactg gatttgtcat 360 |
| tggccgctag | cacaggagat cccagggcag agtctgtgtc ctt 403 |

<210> 1642
 <211> 348
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1642
 aagattcaga agaaccacag aagttttatt ttaaccatgt ttacaaaaaa aagtaatcca 60
 tacatcaaaa ttgggggtttc cttgggtttta atacttttaa atgacacaat ccaatcgaat 120
 tcatgcanca cttccagaga tacagtgcaa ctggaaatat ttttgccatt gcagtggaca 180
 ttttcaaaaa gcaaatgcct atggatgctc ctgagccttc aaaataaaaa gaaaagaaac 240
 aggaccaca gttctctaag gatggctgag tttcgcatat tgtggaaaaa caacacaaat 300
 agccttcaag agtttcttaa gcatcattaa cattggattt cacctctc 348

<210> 1643
 <211> 456
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1643
 tttttttttt tttttttaat agaacaggtc aagataaggc tttatttcta tagaaatgat 60
 gctttgacaa tagtttggtc tgggtgtaagg ctacacaaaag aaaatcacat gtaccatgtg 120
 tgggttaagc ggtttgattc aactgaacc aggccagccc agttgccctc tgctgtgtcc 180
 acccgtggag tggagctgtg tcacagccat cacactggta aactgctgta gctgggtttac 240
 caggctttct cttgccctga cagtacaggc gaagcctgta aataaatctt ctgctatctt 300
 tgtgaactta accaaatccc agttacctta tttaaatggc aatagatctg ttttccctta 360
 aactagaaac cttaattacc tgtattccta cctccagctc aacctatata tttgcanctt 420
 tccagtaagc aggttttgta ttttccatcg cccctc 456

<210> 1644
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 1644
 gagggaaaga caaaacgtat ttattccagg ccaggctcta aaatgcacac tgcacgggttc 60
 cctgttgta tcagcaccag taaggaaaga acgtgcctta acggcagccc caccagagc 120
 ctgctgcgtg gctgctgtga ggctcccat gaatccacgc agtcttcttc ctactggtg 180
 cagttggtga ggttttctac cctcacagca aagggatcct taactataaa ttcacgggtat 240
 gcagagaaga ggacagaatc t 261

<210> 1645
 <211> 652
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1645
 tgactttgct gatggtttat taccttaagg aaaagactta cacagagaaa ttgagcaatg 60
 aaaacccttc acattgagca aacacattcc acgctacaca aatcatgaga aaaatgagaa 120
 ctgttggtgaa acatgacaga ttgcccaggt gttatttttc ctctattgga aaattctaag 180
 acgtttcctc atgtgtagtt tttcagtcac aaaaatggca gtaggaatat ttaaataatta 240

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| aatcacagtt | tgaaaataga | tacatacata | catatatata | cacacacaga | gatacatagt | 300 |
| tgacttatga | ttcccagata | tgagggtta | tcattgtgac | tgcttggatc | aagacaagtt | 360 |
| tgtaaaaagc | agcgacatag | ttcaacataa | tagtcaggag | ctagattact | tccctgtaat | 420 |
| tgctatgcac | acacagtaca | aggctagcga | gattatagac | aatctgtctt | cgaatctact | 480 |
| atcttgataa | ttctgaatct | tttcaagtta | aaattgcagc | tattgtcagt | aagcgccctt | 540 |
| ataaagggtca | ggcctttgan | tgggggacga | taactngcgt | caccaggaga | gaggcncggt | 600 |
| tcaacttccn | ggttccgtct | ggcngcggtc | acagccgna | acctgggtcc | cg | 652 |

<210> 1646
 <211> 376
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|-------------|------------|-------------|------------|-----|
| <400> 1646 | tttttacatt | tactgatgga | aagggtgaaat | ggtagatcga | agccagacat | taaaactgtt | 60 |
| | ttaaattctc | acttacttgg | acatagaata | tcagcagctc | caaagtcatt | cacccggcag | 120 |
| | ataggcaaaa | atgagtcctt | tgaagatgaa | gtacaaaaag | actattgaaa | agtattttgc | 180 |
| | acattaaatg | ctaagctata | ggatataaac | atcttatttt | cagaaagaga | tttctggata | 240 |
| | tatttcttaa | ggtcagtggg | cgaagccaga | attctactat | aatgtataac | cctatagcac | 300 |
| | tgaaatctat | tttttcctgt | atattaatca | tgtagtcatg | caataactaaa | gtatagttac | 360 |
| | agatttcta | aatag | | | | | 376 |

<210> 1647
 <211> 449
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 1647 | ttttgaggat | gcattgatgt | attgatttgc | ctgggaacaa | tggcctatag | ttcagcctga | 60 |
| | gaattctcat | aaagttaaga | aggcataaaa | atgccccccc | cgagactcgt | caggagtatt | 120 |
| | gactctccta | cagtttaatt | tgctgctttt | gtgggtttctg | tgatgtcatc | ccacatgtgt | 180 |
| | aagctggaaa | aatccacgct | gtgaagtgtg | acctcctgtg | tgtatttcca | caatggagaa | 240 |
| | tgtaggctt | cgtttccctc | ggttgctaca | catctgatta | catgtgtcag | gaaaacaaac | 300 |
| | ttaaaaaatt | tcaggagaca | aacctttcag | cgggaattgcc | tggaaacccat | gaagtgaggt | 360 |
| | catagaacct | acaactataa | taagctgtag | gaagaaaagt | agcctctggg | ctactttggt | 420 |
| | gtctagtcac | attgactttc | caggtgatg | | | | 449 |

<210> 1648
 <211> 465
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-------------|-----|
| <400> 1648 | tttttttttt | tttttttcta | aatgaagtgc | ttttaatttt | cagaccaaac | atttttaata | 60 |
| | taaaaacatt | ttgataatat | acaaacagca | atcacaacag | catccacatg | gcagcaaggg | 120 |
| | gaccagggca | cagagnngggg | gagcgggctg | gggaggggaca | gttttcaggg | tcccagttgc | 180 |
| | ttccctggct | tgaaatcacc | ctgggtcctag | cagaggacag | gttaaggctg | ccagaggang | 240 |
| | ngggtccttg | acctggggccc | ggagacagac | tgcccaggca | ggccctctga | taccatcttc | 300 |
| | caaccatggc | agcctccagg | aaaagccaga | tccatttagg | agataacagg | aagggtggctg | 360 |
| | tgattgacag | gaaaggcaac | atgggttctc | agcatcctgc | tgatcacacc | tctggggaggg | 420 |
| | gctgctggat | tgaagaggac | ctaagaatct | tcctggggagc | aggac | | 465 |

<210> 1649

<211> 367
<212> DNA
<213> Homo sapiens

<400> 1649
acatttttaga tttatttttat tattttttaat gaactatggt taacattttta caaatcttca 60
ggttggttaca gtttttcagca gtaaataatag tagtaacagc aataaatata ccgaaatatg 120
agattttctct gaaagaatac aaaaaataga aacacctgga aacaagaagg caaaatgtca 180
attctagatc tgaaatagaa attaatacag ctgaattcct ttacaatgct cgtacatggg 240
aaaatgagaa actcatgcgc cttataaatg aatgtgtgac tttgagcttc accttttttag 300
gaagttttga gggacatcat ttgaccaca gatctctaaa accctataat acgtattgat 360
accagag 367

<210> 1650
<211> 263
<212> DNA
<213> Homo sapiens

<400> 1650
tttttttttta gacaaatgct cactttaatc acaattctaa attaattatt ttcacattaa 60
tatagatatt tccataaacc aagaaaaact gagttattat acatttttta acagctaaca 120
tgatttgaaa atttttttatt aaaaattgat cagaagctag ttgaaattct caatgtaaat 180
ataaaatatt cattacaatt gtttttcaaa gtaaattcag atctaagctt cctgaaaagc 240
tgtactatct catatcataa tag 263

<210> 1651
<211> 340
<212> DNA
<213> Homo sapiens

<400> 1651
ccaatgacct agtatttttat ttttagtgcc taggcaaggt ctgagaaaca aatacattgg 60
acaaaacttg ttggtcttct tcatccagaa attaagggac tcagctcagg aacctctcct 120
ggagttgtgg ctctcccat tggttgacat tagatattga attcatgtca tttcctagac 180
aactgtgggtg agggatggag ttggggggct ggagaggaag ataatagcac aaattccagt 240
attaggctgg attcttctga aggtgcctgg cggttgagaa tttagctatg ggaccctagt 300
tttcttttct gaaggatccc agtagtctca accaagaagc 340

<210> 1652
<211> 330
<212> DNA
<213> Homo sapiens

<400> 1652
gggtgtggaa acatgtgagt gtattattta tttttgaata aataatacaa taaaatataa 60
aacatacact tattgtggcc ctctgcacaa gcaatctggt tgtgcagagt cttggtgtcc 120
cctgctagtc ttagtacctg tatagagctc ttcagactgg gtgtcgtgtt gcagaggcta 180
gcaccattcc tgatgtcacc ctgggtgaga cgtgggtcctc agaatccaga tttccttttt 240
tgtctttttc cttcttccac atgttctaag aaaacataga tttctggcca ggcatgggtg 300
ctcacgcctg taatcccagt actttgggag 330

<210> 1653
<211> 383
<212> DNA
<213> Homo sapiens

<400> 1653
tcttggtgta tttttatttt tcaatataaa tagagacagg gtcttgctat gttgcccagg 60
ctggtctcga acacctggcc tcgagcaatc cttccacctc agcctcgga agggctgaga 120
ttacagggtg gagccactgc gccagccag cagttttagt tacattatag agagagttta 180
atggcatttc cacagttcag gaccaggga agaaacacag aggctgcctg gccctatgtg 240

aaacttttgg gggccgactc caggcctgag cctgctctga ggggatcagt catgtccccg 300
 ccttagtccc aggacctgag ggagctctgg attggtggct tggccagagc caggtggatg 360
 gcagtgttga ggggctgggtg ctt 383

<210> 1654
 <211> 323
 <212> DNA
 <213> Homo sapiens

<400> 1654
 accttttatac aattttattgg gtttaatat cataacaata acttttttcta ctgaaatagc 60
 agtttgtgtt tacctgtcga accccaatat gagaaatgtg tacaaaagca acagactgtg 120
 atagaaaaag gtatgtgaaa aaattagcaa accaaagcat gataaatgga tgaagcacta 180
 taaaattact ttgctgttta cgtaactgta tctttaatct gtactgtgct aaacagccta 240
 tagccaagtt ttaaagagtt acaggaacaa ctgctacaca ttcaaagaac aggcattcac 300
 tgcagcctcc tgatttgacc tga 323

<210> 1655
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 1655
 cagtagatgt tgtctgtatt tattttctac ctttatgaaa caagaacctg ctaacaggta 60
 aatcgtaaag taacatatatt ttgccctgat gccattagtc acaatgccat ggggtaactg 120
 ctatgtgatt tcccatttgc aaggaagcat attaattcag tttctgctca atatacaatt 180
 aggttgtagg gatatagata tctcatttga gttatctgag tttttcatct ttatatctaa 240
 aaatctaate tgaaaatagt aaaacacatt taaaacctta gatgctactg tagtaaaagt 300
 tatgtttata aacatttcag tatattcctt caacttcaag aatcttgaat ttccttgcta 360
 gaaggctttt ttcctcaaag attcctttta ggcttacttt ggtgttcagg atctccaatt 420
 ataaatgtag tctctcagca ccacattccg taaagatgat ttcccaagta acgggtattg 480
 gactaagttg c 491

<210> 1656
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 1656
 tttctttcaa actttgttta ttcacctgta aaaaacttca cacacacaca cacacacaca 60
 cagagagaga gagagagaga gagaggcaga cctaagatcc ctgttccaat ccccagactc 120
 acctaggggg tcagcacata cattccatac caaggtgacc caaaccact atcaggggtct 180
 gtgcctgggc acaaaggggc aggcaggggc agtgccatcg tttgaaacta ggtctgtctg 240
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 cagcagagtg gcctgttcgg ggtgggggac tggctgtcga taggctggta gcgagcccta 360
 gtagcatctc ggcggcggcg gaaggccagg aattcctccc gaag 404

<210> 1657
 <211> 313
 <212> DNA
 <213> Homo sapiens

<400> 1657
 aagcagttaa atttttttaa cttttatatt ttaaacaatg ggctaaaaat aaacagtatt 60
 aaaaggttaa gtttatataa tacatatgta cacaattagt ggtgttttct tttcagacaa 120
 aatactgaaa caaatattag tttaaaaaca aactatacag aagacttcat accgtaacaa 180
 taaatgtata gtttcttcaa agggagaaga gattcacata tctgataaca aaataaacta 240
 gcaatctagt tttctaattct actttatgag gctggatttt ttttttagaa aagctaattt 300

aaaatatttta gaa

313

<210> 1658
<211> 539
<212> DNA
<213> Homo sapiens

<400> 1658
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agatccaaca gcaaggaaga agagacactg tcgctgcccc agtaggactc cagccgagta 120
aggggaaggg aaggggaaggg aaagacatga ataatcacac aaatgaatgt caaatgatgc 180
agcaaagggg aggcacatga tgcccaagtg taaataacca gggggcctaa cctggggggag 240
gaggagccac gaaaggcttc cctaaggagc atggataagt ctaccaggca gagggaacag 300
cgtgtgcaaa ggccctgtgg taagtagaaa aattaggaga gagacatata gccagtagag 360
ctggagtgcc cagctggggg tgggggtagg gggagatagt acagagtggg gttggagggg 420
gagcttgtag ccagatgatg tagggctttt gagaacctat tacatgtatg ttgatcctta 480
ctctgggcaa tgtgaagctg ttgaggggtt ttaagctgct gaatgacatg gtctttttg 539

<210> 1659
<211> 523
<212> DNA
<213> Homo sapiens

<400> 1659
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ctcccagatc tcgggtcagc acgtgtccct tcagcacctt gacgggcacc agcaaggggt 240
tctgcagaag gtcattgtac accatgccat ggcagacgat gacactgccg tcgtccgagc 300
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gtctcagcat cctgtatggc ttggtggaaa gatccaggtc aaaccacacc agcttgctat 420
cgtagctccc acagatgacg ttgtcacctg cagggtgcac cgccaggctg gacacccatt 480
tgcagttggg catcagcttc ttggtgagct cctggcgcac aag 523

<210> 1660
<211> 297
<212> DNA
<213> Homo sapiens

<400> 1660
gcactttttg gaggaagttt attaaattaa aaaaaaaaaac tacaaatgag taattataaa 60
atataatttc actcttttca ttattttacca caaaaattta aaaataccaa tatacagacg 120
agcacaagtg aactggaaaa gagctaaaaa ttgtataaaa gacaaatcta aactcaagaa 180
tatatgagaa gtgacatata ccatacactc tcaagttagt tcagaaagca tgttccgtgc 240
tgggcaggtt ttctttccag gtcagttttt attggcacta cacctggaaa gctctct 297

<210> 1661
<211> 379
<212> DNA
<213> Homo sapiens

<400> 1661
ttttaacagg cagaaactct ttaatcaggc tttttttcca actctaaaac aaaatcccat 60
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catcatctgg tgactcctga ttctgcagga ctaagacatt tcccaagagt tctgctgcat 180
cagccagtga ggacaagagt tcttcagtgc ggttcagctc aaggacacct aggttcccc 240
agcagggggt tgcttgacg tctgacaaac cacagagcgt tgagcagatg gcctgggact 300
cccagacctg gcagaggggt ttattagggc ccgcctgggc tgcaccgttt catccaagta 360

ccctgaccca gcactcatc

379

<210> 1662
<211> 490
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1662
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ttgggtcatg gatgaattga agatttgatt aaagttacaa taaaaagagn ccccntcaaa 120
gcacgtacan nctgtatcac gaacggtgcc tggcctactt tttccttttc taccaccccc 180
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gatattgcct agggaagatt agttgttttc cttgtcattc aagttcattc tggacctctt 300
cctctgagct gttaatcagt gttgctaaac agacagggaa agacaaggga gagaaaaatg 360
ctgattcatt cttcagaact tttaaccntt ttaaccncta attcttctcc ttgagaagct 420
attctttgat tgtgaaagct ttgttgttca gggnaatatg gggtataataa aatagctaac 480
catttttaaa 490

<210> 1663
<211> 195
<212> DNA
<213> Homo sapiens

<400> 1663
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aactgcctgg tattcagctg tgactgtgag gatggataac tatatttctt taagaaatag 120
caggaaggta tctcatccaa gcagaaaata agaccaacag ttgtccaggt ctcaagtgggt 180
ctgcatttct tccta 195

<210> 1664
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1664
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acaattctga ttaaaaagag acagacacca tgtccacaga tgggaagaac ttatattcta 120
aagatgttaa tttccccttc aatgcaattc ttctcaaact tccaacagac attttgttca 180
cagaactttg acaagctgat tataaaatgt acctgaaaaa gtaaattgtgc a 231

<210> 1665
<211> 299
<212> DNA
<213> Homo sapiens

<400> 1665
cgtctgggtg caaatcagaa atatttaaaa gttttaattc agaggcttcc ttcaccaaatt 60
gaatctaaga atctggtatg tgttgtaaaa ctgcatattg tgttgggcat tcaggaaaaa 120
aattctctgt acatttgaac ttacactttg ggaaattgct aaaggtagtt ttagtcattc 180
acattccaaa ccaagcacga ccaaaaacaa gcttttaaaa gttcaagcat atttgtgtat 240
tgggaaaagt taggaatgta atatttagtg ggtgggcatt tttaaataat gtacttgtc 299

<210> 1666
<211> 310

096465091

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<210> 1667
<211> 325
<212> DNA
<213> Homo sapiens
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<210> 1668
<211> 495
<212> DNA
<213> Homo sapiens
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| Genomic coordinates and sequence | | | | | | Position | | |
|----------------------------------|------|------------|------------|------------|-------------|-------------|------------|-----|
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| | | cccagccaga | gtaggctcgg | acactccagc | gcagtcacac | ggtggaaggt | ttgcggacag | 120 |
| | | aaaatggaag | tgaggtacag | aaacagctgg | gcttggttac | agcttggcat | ttgccttatc | 180 |
| | | tgaacgtggt | ttgaacagtt | ggctacattt | gattggccaa | aactcagtga | ttggcacaag | 240 |
| | | tgtagtctgt | ttacacctcc | acttgtcacg | atatacagac | aaacctttag | gccaaactta | 300 |
| | | aatatataag | gaggcagctt | taggctaaac | tttattttcaa | tacctgtatt | ccaacacttt | 360 |
| | | gggaggccga | ggcgggaggg | atcacttgag | cctaggaagt | tagagattca | gcccaagcaa | 420 |
| | | catagtgaga | ccttgtctct | gtggaaatta | atttagccng | ggcttggttag | cctgtaccng | 480 |
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<220>
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<223> n=a,t,g or c
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840

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<210> 1674
<211> 443
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1674
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ccagacatgg nacaatgagg acatctggac agatataaaa gagaactctg aacccctcat 180
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taaacatttc aatgacttaa cctgggggca atggcctcac acaggatatgc agcttcttct 300
caggcaggcc acccccttct actgctctgg aaccctccgg gcccaggagt tctcaggcat 360
aggcccctag gataggcagg tacaagggtc tggattttta ggngataacc aaggcatttt 420
ggttaatttt cctagggggg gtt 443

<210> 1675
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1675
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tgcttcagtc ccacgtggca cttggaaaaa acagagcgag gccccccaa gaggcagcgc 120
cacccggccg ccgtgctccc ccaacttggg gacgtctggc cttggacagc tgggcccgtc 180
tctcaccacc cacctcagag gcaaaaaagg attcacacc agatctctag aaaaatgatc 240
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<210> 1676
<211> 333
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1676
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ataattatga cntattatt gtcattattt gaagattatg tgtgagctca ggagatatct 180
atgggggttca agttgacaag ggggtgacct gtgatgggtt aatactgagg tgncaacnt 240
ggattgggat tagnaaggcct ggcaaaggta tttgatcccc ggggttttgt nccctngagg 300
ggtttttgtg ccaaaggggt ttaaccctt tga 333

<210> 1677
<211> 149
<212> DNA
<213> Homo sapiens

<400> 1677
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ccaacaaaca attggcttaa aatcccatgc taagtagcac agactggacc agaacttaga 120
tacaaacttg atttaagaag cctctgac 149

<210> 1678
<211> 241
<212> DNA
<213> Homo sapiens

<400> 1678
gaaacaatct gggtattaca ggaatctact ttgtcaactg taaatttatg aaatctaaat 60
acagatcaag tatttctgat gaaaacgtat gaactgagat atgctgttaa atgtaaagta 120
cacaggattt tggaaatgta gtacaaaaag aatgtgaaaa cccacaattt taaaatactg 180
attacacact gatacaatat tttagatata atgggggttaa ataaaatata ttaataaaaa 240
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<210> 1679
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1679
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aaagatttta tacttcatta ttacaaagta gtgtgattat caaaagggag tggttcatac 120
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ctagataagc cattcactat tacagtttcc ctctttacgg ccttaaataag gcactattag 300
aaagtaataa aaataaattg gcaatnaaag gtcnctctag aagcactgcc tgaagactag 360
cagccttgga tattcccatc accaacaat aagaacncta ttcntttctg cnaattttca 420
tcccnaacac caattactgg ncaatct 447

<210> 1680
<211> 604
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1680
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tcgcgcccac cacgctggcc cccgggcccc ggctcgccct tcccaggcgc cggctgcagc 120
agagtttcag aacaagcttc ctggaaccca tgaccatga agtcttgctg acatttatac 180
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aangatgaat gtaaactggg cgcctgaatg gaaaagaact gaatggctcg aatgatgctc 540
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taaa 604

<210> 1681

<211> 481
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1681
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 c 481

<210> 1682
 <211> 138
 <212> DNA
 <213> Homo sapiens

<400> 1682
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 atcattgaaa acagtgt 138

<210> 1683
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1683
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 tgtgccttga ctttgggggt gnccattatt ggcacagt 458

<210> 1684
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 1684
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 tttgagggga gagagagaga gagactgtgc gacgactgcg gtgagaaagg aaaacagacc 360

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tgccacctca aaaagcagca gt 442

<210> 1685
<211> 456
<212> DNA
<213> Homo sapiens

<400> 1685
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ccttatagca gggataatag ctactaatga aaagga 456

<210> 1686
<211> 418
<212> DNA
<213> Homo sapiens

<220>
<221> misc.feature
<223> n=a,t,g or c

<400> 1686
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tttgctgtct gttacctgag tctcacttaa ccagcgtaa acttccatca ttctagccca 180
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ttgaggcagg caaagcaacc tcaggaaaag gcaggaantg gaaaacagga tggtttaacc 360
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<210> 1687
<211> 320
<212> DNA
<213> Homo sapiens

<220>
<221> misc.feature
<223> n=a,t,g or c

<400> 1687
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aatactaaaa ctctgtttta aacattgcaa aacaaacccc actgcatttt agacagctgc 180
ttccttataa aagtangtaa aaaacattct gtatatttac ataaaaaatt ctaaattcatt 240
cactggggga aaaatgaaag ncttttaaaaa tatatttcct tgnccactc aaataccata 300
aatttcacct tacacatata 320

<210> 1688
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc.feature
<223> n=a,t,g or c

<400> 1688
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tagtatctgg agaactacaa ggttatTTTT tataccacaa gatctgctcc tattaatgt 180
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atgccagctg ttcagtaggc aagcataggc caatcattcc ccatcggtaa tcaactgtacc 300
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ccggggggcc 369

<210> 1689
<211> 353
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1689
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aatacaaggt agttataatt attaccatag tttttcctga caatgaaact aagggtacagg 240
gaagttagggt ggttttcaca aagttacacg gataattcta tcaatgacag gtgagattca 300
aattgagtat atctaacttg ggnatcccggt gttctggaat aaccaaagt ata 353

<210> 1690
<211> 350
<212> DNA
<213> Homo sapiens
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<221> misc feature
<223> n=a,t,g or c

<400> 1690
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<210> 1691
<211> 198
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1691
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agaaacatgt gcattttttt ttcctttcac aagngctgct gttacttgaa aagaatgctt 180
ctggaattag gaataact 198

<210> 1692
<211> 396
<212> DNA
<213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1692
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 tatctattat tattattact gttggctaaa gattttggga ggaagctacc tgtagcataa 180
 cctttcagcc ctaagtgtcg cgtgtttctc ttgggcacaa ggacatcctt gtacataacc 240
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 attgttccaa taatgtcctt tgtaggccat tttnttttn ctcccctgtg cagggnctcg 360
 atccnggggt cacacattgt attcgttttt gnccat 396

<210> 1693
 <211> 434
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1693
 ttttttttct cagtttgga tgtcctagcc tatccacctg ccaaggagat ctacttcttt 60
 tttcctccat gcaatgctta aatgtctcat ctttcctaag cctctcttcc agttaaatt 120
 aatgacaaag atttggggca cttgccttta ttctattttt taatactggg tcttctcttc 180
 ctactatgta atctctctga gagcagacac aaaatttgtt acattttttgt cccctatgca 240
 tccccaccct gatgtctatc acaaagacct gtagtagggg attcatgttt cggcaaaccat 300
 aattatggat gtgtacacca tggaatatta ctctacatca cacaactcta tggcaacgtc 360
 agncattaca tcttcttaat ggcaaagttt tacttaatac ttatctattt aattaaaact 420
 acattattta tact 434

<210> 1694
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1694
 ttttttttta ctgttaaaca atcttttaaat acctttggaa ttactcttta taatttttat 60
 acttcaaatt aagaaaaccg cccaatgttc aggcaacttt ggcattaaca tttccaagaa 120
 agggacaaaa acaactatta atgcaacatc atgaagagat tggggacaat tgtgggtgtc 180
 tataaagctc tctttgaaaa gctctttaaa gcgaactcag gtaaatggga aatgaaatct 240
 ggacttttta cttaggccaa ataacaatga ggtttgaata taaaatggga agnttcaggg 300
 ccctttctac ctaaggatgg aagggcattt agtttgcetca aattcaaact ccaccaata 360
 cttctgnatg ggaaagtttg ggcaacagna ctgggacctg tggggggggtt caccaacctt 420
 ttttgtcca aggtgatcn gggt 444

<210> 1695
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 1695
 tttttttttt ttattgttgg aaactcaact tttattctgg gttaagcctc tagataaaat 60
 cttaagtctg ccaaactatt attccccca ccttttcttt cccaactat caagaccatt 120

ctaggaagta cgtcactcta ccaaaaatga ttgagttgtg ttgggcctgg ggaaaaagtc 180
 gggcaaaagg agcctttctt gtggctgctg atagttaggt tcatccacca ccgcactttg 240
 agctcgacta gagtcgccat ggggtttcat ctgtctttgt ggccccacag tg 292

<210> 1696
 <211> 464
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1696
 tttttttttt tttttaaaaa acaattccat ttatTTTTgc atcatacaac ataaaatcct 60
 tagtaataaa tttaacaaag gatatacaag acctctacca aaactacaaa atgttgctga 120
 ggaaaattaa agatgaccta aataaatgga gagatgtgcc atgttcatga ctagaacttt 180
 caaaactggt aaaatgtctc caaagtgatc tacaattca acccaacccc aattacagtc 240
 tcagcataat catactcctt tttatagtaa ttagcaagcc tattctaaaa ttcataattg 300
 aaacacaaaa gntctaaat cttggggaaa acaacaaaat tgggggattt tacatttaac 360
 atcagggttt tactaaaatt ccattccatg ggttctcggc tgggggccaa tttgcccct 420
 cagcggggca tttgggcatt tcnggggtac attttgggggt gtca 464

<210> 1697
 <211> 430
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1697
 tttttttttt cagncacagg tagttttatt gttatgtttc acctagntag gcaattttta 60
 aaaatagtgt gtagaaatga atagtttcaa actgagtaaa tatagtagta taccatgtca 120
 taaaacaatc aaatcaaaag caactgccaa gctaataata agtcaaagaa atagtaattc 180
 tggcttgtac agatatgtgc agtgttttca aagctcttaa cagttaacca ctaacatgta 240
 tctccaaagc ttaacttagn agttggaaga tgaatttcac agtaatgtaa ttttaaccac 300
 catttacatt cactttaata tattactang gatgtttact cctatgtnc aatgggtgc 360
 tttcccagtg ttccacantt tcacagtttc caatttgtag atatgtgatt gcactaacnt 420
 tggggacagt 430

<210> 1698
 <211> 469
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1698
 ttttttttaa taattacttc cagtttaatt tatagactat ataatttgct atgaaacaaa 60
 cagttttcat tttgacataa tttctgacaa ctcaagtaca taaatatatc catgtgagct 120
 cctatnnnnt ttgacatgct cacttacctc acatcagttc tgccgataga tttggtaagt 180
 ggtgctttta gtttccttaa tgcaccctc aggatttcat gcaaataaaa ttattatgac 240
 aaatttttct atagccattt ctaacacagg gaactcataa agaaatcaaa tgtctgcact 300
 tcactgtgaa aacactaaac tctcaggcca taatgaggac tccacacatt atcngaaacc 360
 ccagggcata ccaaaaggnc aggggtccccg gggacagtct ttggngggg gaggggcata 420

095456-09560

atgttggatt tgggccatnc tgaatttctt gntcttgaac ttggccgct

469

<210> 1699
<211> 366
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1699
tttttttttt tcacaggttt acaagatttc ttctggaaaa taatcataaa ttcaaattat 60
attataattt gcagttttaca caatttttaa aggggaagaaa gatgcctttc tttttagctt 120
catttggaaca gtaagaacag ccaccaaccc ccagggtgtg aaaagttgtt ggctgagtga 180
caatacttgg tcacaacatt gaaaagaagt atttacacca ttctgggaag taccaaatat 240
taggaaaaaaa caaacaacaaa cgggaaacan tccctagtag gcattccttg ggcgtgcaaa 300
ggtcagcagg gaaatgnttt ttcccttttg acagtttttc atggataagt cttggggagg 360
cctttc 366

<210> 1700
<211> 472
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1700
tttttttttg ggaaatagaa ctctttattt aaatatcagt acagaacaat aaattactaa 60
aggaaacaat cattaatata aattttttct tattaataaa tttaaaaatt ctctttcagg 120
acacggaaag aatccccaga ggtctgaagt ctaacgtgat tattttactg acaatatcat 180
ttgcaagaaa gagatcatca ttcaaaggaa gtacttggat tttccaaaca aaaagagaag 240
gaaaggaaaa tgatatatct tgtttagtca gccaggaact ttaagtgcag gganttccat 300
cagggtaggc accaagggga aatttgccat taattatgtt agggatttaa ctgctgggta 360
aaatttggtg ggccaaaagg ggatccaggg cagtggaatg gggctttttg gggcccttg 420
gtgtcctcct ggtctgctgg ggnccctgg gncttacacc tngggccttg gg 472

<210> 1701
<211> 182
<212> DNA
<213> Homo sapiens

<400> 1701
tttttttttt atgtagaaat aatgtactta gtgatgcata agacaacagt ccagattcag 60
ttttatttgg ttttatttcc tacagtatag tgaggaataa aattgggggt gatcaaggct 120
ttacagattt gagaagcctt gaaaacccta caaaaatatt tagaatggat ttcataagaa 180
ac 182

<210> 1702
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1702
ggcttttagta caattaccaa gtgtaatcag ttacagtaat tctgtatgta tctcagcagt 60
attattttcc agcatggctt tacattttta agaacttaat aactatagaa taaacagatg 120
catgctatac gagttggaat gtattagagc tgggttcctt tttgtgtgtg tttgtgtcac 180

gtgttttagtt tatccntagt catgaatact atgttgccta gatacagtgg ggaacaccgg 240
gaaagtgaaa tgcagttttg ttttctggga ggcaa 275

<210> 1703
<211> 361
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1703
caatcantnt nactaaaaaa ttttattgaa ctggtcaatt ttctttgcca atattactgt 60
attcttattt ctagtaatag aagtgtgaaa aagcatcaag gaaacttaaa ttgcattctc 120
atactgactg catacaataa ttctgaaaac agcggaggtt atatatatcc ctcataagta 180
aaacatgagt aacacaacaa ntgaaaaacg antaggagac anttcaaata atggcgacct 240
gttattctca tctngttaag tactattatt ttctaacagg gantttgcta tttcaaatat 300
attatctgag gatgtctata tatttatatt tngaggtact atacaaattt ggggccaatg 360
g 361

<210> 1704
<211> 472
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1704
caaattttaac ttgctattga gaaagttaa caaattgttt aacctgaaag acaaatttcc 60
tggtaaacaa ccatttaaca tcccctgtgt ctttgcctca aatccattac caacaaggca 120
gtcatccttt caaaatgcaa atctgattat atcacacttg actagttaa aatttgtcaa 180
cccttcctat taattttatg ttgaggagca aacttcttaa catgacctat ttatcatgta 240
tcatccaaac tgggacactc tgagagtga aagagagtga ttaattttta taccagtaaa 300
ccaggggcag cccctaggaa aagaggttag gtgtgggcta tcccacccac aaggccctac 360
ctcttcaaat tccttcacat tctccctcac tgttccctcc ccaggntccc tccagcaggg 420
cnnntttgtta ggggnaaaat taatttaggt ggggacagtg gggttatggcc tt 472

<210> 1705
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1705
tttccagggt gacaggtttt attccacccc cttccatccc catggccacc ccaggcagga 60
ggagacaggt gtgctggagt ctggtcactt tggggcccg cgtgggcaga gccactggg 120
tttacattct ctgtgggcag gtgtggacac cagagggctg gggcaggagg agcgtgggag 180
cgagcggncg acccccgtct ctggcccggc ccctgggtaa acgccgactc agatgcctga 240
aacagacctg ggccgagcaa ggaaggttga tggtatttcc acccagacag aaattcaaa 299

<210> 1706
<211> 342
<212> DNA
<213> Homo sapiens

<400> 1706

109T60* 35445660

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttaaaaaaat | tttttttatt | gaagaacagc | atacataaag | acacaccagt | tttaagtgca | 60 |
| caacccattt | ctcacaaagt | agacacactt | gagtttccac | caccaggtga | agagataaag | 120 |
| ccttattagc | acctcaaaag | atcctccctt | tgtgccctt | ttcccattac | ccaccctcct | 180 |
| ccccaaaggt | aaccactatc | ctgacaccat | aggttagttt | ttgcctgttt | ttaaacttca | 240 |
| caaaaatgga | atcatacagt | ctgcattctt | taatgtctgg | ctcctttcgc | tcaacatcat | 300 |
| gtttgtgaga | ttcatccagg | ttgcctgtag | cagcagttca | tt | | 342 |

<210> 1707
 <211> 340
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1707 | ttggaccctg | aaaatccaaa | ccactgttgc | tattacaaaa | tttttcttta | ccctagtatg | 60 |
| | cacccctggg | ccaagcacag | atgcattaaa | aatttgccaa | gagaaacaat | gaagtcactg | 120 |
| | ataatacaaa | gcatgagagt | atcatgaaat | tcatgtcttt | gttttcttcc | tctagatact | 180 |
| | taattatttc | tcattactga | tcattttgtg | gttattggca | gaggggcaag | gaaactccac | 240 |
| | cactgtaaac | atgtagagac | acatgctcct | cagtagacca | gaagtctgca | tatgatgggt | 300 |
| | ctgttcacaa | atccaatgtg | aacaccactt | cattaatcag | | | 340 |

<210> 1708
 <211> 277
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1708 | ttaagtatca | aagttaagtt | taataaagta | agttccttcc | attttgtaat | gtataaaata | 60 |
| | ataccattta | aacaggcaga | aactagctaa | tctgcattta | tagagcatag | ttttttgggt | 120 |
| | gggaaaaaag | cattctttca | tcatttcacc | tttactagaa | gaaacagact | tatgatgggt | 180 |
| | cttactatta | tttttcaact | ttagaattat | tcattcagta | gaagctgtat | ttcaagtacc | 240 |
| | caaccattct | gtttttcact | ttcaatgtaa | tcttcaa | | | 277 |

<210> 1709
 <211> 505
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 1709 | gtctcaaaaa | caggtattat | ctttattaaa | aatggatag | atatagcagc | acttacaaaa | 60 |
| | caggttcac | aaaggcattg | tacactgtca | actgataatg | tggagagggc | agccccctgc | 120 |
| | ccagctggct | atgggctctg | cacaacgctt | gcccgcaccc | acctgctcca | cttggtacaa | 180 |
| | cggagcccg | aacacctgcg | aggagagcca | cgccaccgtc | gcnctccaca | gcttcaagct | 240 |
| | tttggtgttg | tggggagtcc | cttaggggtca | agtagcacct | tccatagcag | catcggggagc | 300 |
| | acgcactggg | tgtctgggag | gtggctgggt | gtactttgac | ccactttatt | ttaaaaaaaa | 360 |
| | cctattaggc | atttcaatta | aaaaacactt | tttgccctgt | tttggtggc | cattccacag | 420 |
| | gaaatacttt | ctggttng | ggaaggaaac | actttttccc | tttcaggata | tcttggttaa | 480 |
| | aggcaaacgg | acggcttccg | ttcgt | | | | 505 |

<210> 1710
 <211> 134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

0954456-094304

<400> 1710
attgttggtt ttaatcagta tgcttggctt tggcanttaa aaataaatga aaagtaaact 60
gcagacatta ggaaccattc ccccaggacg tacttaaaga agaacagaca aaaaataaga 120
ataggggagt gacg 134

<210> 1711
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1711
tttttcttct ctccttcatt tattcatttg ttcaaaacac tgtctagtag caacattgtc 60
caccgggcat tgagaatata atattgaaga agagtcactg cctgccctct ggaaaaatca 120
gagtatttga aagantacac acaagtaaac aggcagctat ggcaaagtgg gtaaaagctg 180
caaaacaggg aagtttcgcc aagtntcaga tgccaagaag tntcagatgc caagaagaaa 240
gggtgcatga catagacttg ggggggtcag tagtggttct tggaacgagt gacatttaga 300
ctgaaactgg aaggntntga gtaagggcta atcggaccaa gntgaagagt tacagaagcn 360
gaaggaacng tagggaccat tgctcagagg cnaaaagaaa gctttgattt tttga 415

<210> 1712
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1712
atgctgctat gacagaatac ccaagactga gtaatttata aagaaaagta atttatttct 60
acagtgccag ggtctgggaa ggtgctggta tctggtgagg gctttcttgc tgcattcattc 120
catggcagaa agtgagaggg tgagagaggg acaaggagg ggaactgaac tcattccttt 180
atcagtaacc cactcctgca ataactaat cactcccaca ataacaacat taatctattc 240
atgagggcag agctntcatg acctagtcac ttcttaaagg ttctacctta actccattgc 300
tttgggggat taaatttcaa catattaaac ccttgggagg gacacattcc aaaccac 357

<210> 1713
<211> 421
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1713
atannaannn gaaaagtgtt ctgtttattg gtctggcttg gtctcctgtg cgtctctcag 60
aatgctgtct tgccttctgt ggtcnagggg tgcagtggn ggtcacactg gggcctgcct 120
ctgctgcca cctggaagtg gcctcagtca gtcttcctga accctgtcag cctaaacttc 180
tggaagaggg ggatgaagcc ttggaggacg ctgtggatac ggtacactag tccgaagtag 240
atgccaacgg tttccagggg aggcgaaggt gagcaggccg accccaagag acatgaacca 300
gtctgcgtaa tagtgataac acaccagcaa ngccccnatg gcaaagcaca ggangacgaa 360
attggaaaaa ctcatcatct ttctttatat tcagtcttct ttaacttang aggcctccan 420
t 421

<210> 1714

<211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1714
 tttttttttt ttttttatag aagtactctg attttttattg ttatacaaca tatatatata 60
 attgtttccc caaaatatgc acaattacat gtgtcaattt taaaaaatga atgaagacta 120
 taatgtaaaa cctatagctg taaaattcct agcacaatac agaagggtga agcttcatga 180
 caactggtcg tggcaataat ttggggggacg taacatcaac ggatgagaca acaaaagcaa 240
 gggaatacac atggtactga atcagtgtat gaaaaatatc ccaaacagac aaagcagaac 300
 atggaataga tatatngcac attgtagtat tagtcacaaa catgttacct tggaagcaaa 360
 tgtaccctta aggattgagt tagattcagc aaacagggca cgtacaatca ctggggatag 420
 cattcagcct taaaaataa 439

<210> 1715
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1715
 ttacttttat aataaaacac ttttattgct gcagaatggt aaactgcata acaggcacca 60
 gatggtcaag acgagggaaa tatgagaagg caaatgatgt gaggattagt atcttgagat 120
 tcacctgggtc tggaattatg tcataggcta ctatgcatca gaatcacatg gagggctttc 180
 taaaacagac tgctcagccc acccccagggt tttctgagtt cataggttat aagaggtaag 240
 ttgaacaatt ccccgatga tgctgatgct cctgggtccac aatgtgagaa ccactaagtt 300
 ggagtactga ctcatagaga taaaattcct tgaaagaaat gtactgtttt aagatactgt 360
 aaaatgtgga ggcagggcaa acgtttataa agggctgtta tgtatgaaat gtgcctctga 420
 cccaaatcca cggactttgc gaaaatcacc aaggagactt tgcantaagt t 471

<210> 1716
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1716
 ttttttttca gatttctaga atcctttaat tgtctgcacc catagctgaa gtaaaataca 60
 atatcttatt aaaaggcccg tattgaaaga agaatcagta aactcttctt aagaagagtc 120
 agctgctcct gcgagtcagc gatcttctta aatgcgtgct ctgcttctgg tatecttgag 180
 tcattgcttt agcaggctgc ttccttgaac ttggctgtga gntgggggaa tgtggttctc 240
 ccttgagaaa tgggttccag agagctcgaa gatgagcag 279

<210> 1717
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1717

09954456-091304

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgactttgcc | aaagatttaa | tatccacaaa | tgtacaatgc | tcactgggaa | ccaaagtcag | 60 |
| gcatggggct | gggctttaag | gagcacaaac | aaaaaggagg | gactagaaaa | cttcagaaag | 120 |
| gtattggtgt | gggatgttgt | cggggggaca | ggggacagcg | aggatgtggg | atcccagat | 180 |
| catccaaatc | cctatgtgta | gacatatgtg | tataaaggcc | tttaagagac | tcaggctgat | 240 |
| ggggtatcag | atactcaaga | tgggtggtgc | cgggctctga | aagacatgct | tcaagtaaga | 300 |
| gggactagaa | aactccgcca | gggaagcaac | agggatcagg | gattccagga | ggatccaggg | 360 |
| gcctggggac | ttgttaaaca | cagattgttg | ggtctcactc | cctagagttt | cntcttcaag | 420 |
| tattctgggg | agcagccctg | tgaatcataa | taccaagtca | gggaggggtg | tccaccatca | 480 |
| aatgttccag | cntgcagtgg | gcccgggaag | | | | 510 |

<210> 1718
 <211> 724
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1718 | aagagagcgc | aaagcagttt | attctagcga | gcaagggagt | gagcgtccag | gaaggagcag | 60 |
| | gtgtaaccgc | gcggtcagtg | gagcctcagt | gaggtgtgtc | ctgttttttc | ctgcaatcgc | 120 |
| | cgcagaagac | accaatggtc | gcgttcacca | gctggatccc | acacagtact | atctccaggc | 180 |
| | aggaggcggc | caccagcagc | gagaagagcg | tcacattcca | ggggaccacg | cgagggggcg | 240 |
| | cctcgcaccg | atcccataga | gtgcggttga | gcaagtaagc | tcccgcggtg | tcttcgaagt | 300 |
| | ggtagcccca | ctcgccgttc | attaagcatc | tgggtccatt | tcggagccca | gctccagaca | 360 |
| | ccgagaggca | gtagatggca | ccaagcacc | cgaacgccga | ggagaagacc | gagcgcacat | 420 |
| | cctgcagcgg | tttccacagc | accagcacc | acagcagccc | ttgccccctg | cccgaacggc | 480 |
| | tgcaatcctg | gacacagtac | cattaggccc | cgccaatgaa | gccgccatga | gccaacttgc | 540 |
| | aagttgaaat | ggttgtgttg | tccaggaagt | ttcccattgg | tacnacaaga | aggcgttgcc | 600 |
| | acaattnaag | acgangccaa | ggttttgggg | angcccaaaa | angggaattt | tccctcggcg | 660 |
| | nattttgctt | tagnaattcc | taagggngt | taatcgaaaa | ngcaancggt | cgggnatttt | 720 |
| | cgcc | | | | | | 724 |

<210> 1719
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1719 | ccaatagttt | gactttatta | aatcaataga | acgggatctc | agtgggttaag | cgtcttaac | 60 |
| | agggccaggt | ctcttgaggt | agtttttggg | ccatcagtta | attacatcga | ctttccagga | 120 |
| | aacagactat | ggagaatgag | aggaatcaga | ctgcctgtca | cacacctctc | atggaacccc | 180 |
| | ctagtgcac | ctataaggac | gttacagatc | tagttccaga | ctttacagat | ctagttctat | 240 |
| | tttctcaagt | tacagatggg | gaaactgacg | gccccagcag | gggaacgcgg | gatgtatcta | 300 |
| | agtcactagt | gagttggcgg | cagtcaggtc | tcttngattn | ttttcccat | actctcagcc | 360 |
| | caacttctca | gtggagaggg | gctggcaggg | ctgcttctct | ggatagaatg | tagcg | 415 |

<210> 1720
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1720
 antcacctct gtcccccagg ctggagcaaa ataaataaat aaaggtgcag ctgtgggtcg 60
 aaggatggtg tggaagtttg gggtagacat ccaagactgc agtaatgcta tgcccaggg 120
 atattttggg gcaaaacccc caaaataccc tggcaaagaa agaagattgt gtttcagttg 180
 caatcatcta ccctaataccc tttctgaggg cctctggact cgcttgggct cactgccctt 240
 gtctgatggg gtaggatctc ccagaggaga ccagctaatt atactttaat gaggtgactt 300
 acagacactg gaaaaggagt tggctggtag actcccatc atcatnagca gctctctncc 360
 aggatacagt ctgtgaataa atgggtaccag aacnctcttg agcctcgtgc c 411

<210> 1721
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1721
 ttttttacca ttataaacac gttgcttttt attttactaa gttctttaca tatgctgtct 60
 cactgaataa aacaacaatc ctgctaatta gatgggatta tcatcattct acagagaaga 120
 ctaaagagag gtttaagtgg tctgcccattg ttacactag aactgtcag aacaaagcct 180
 caaatgcaga ttttctaaca ccagggtccag tcttaccat aatacaccaa actgcacacc 240
 aaccaagttt tcttaagggtc catggagcaa ttgaaaatat gtctaaaaca tctgggggta 300
 tgtgcaatgg ggaataatgg gtgttggtt attttactag actttcaaag gaattcataa 360
 ttaaaaagca agctaagaac cactgaccta tactgtaagt tacctgaaat aaggnacttn 420
 ttttggttta ttctgttta taccacagca ttacctataa tgcctagcgc tactataaat 480
 gcc 483

<210> 1722
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 1722
 actgttcaaa cagcaatggt tagttgtaca acacataaag tctagcaaca attacaggac 60
 cagtttgagt gtctgtttgc ttgttttcaa ttgggaaatt taactgtaat gtcaccgtaa 120
 gattggctgg gactggtaac atttaagaaa cgggttggtt ttgcatcccc taggcgtggg 180
 cctcttgctc catcaggact tgggtgtaga tgaatggccc acaagtcacc agccttt 237

<210> 1723
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 1723
 aattgcagtc acgtttatct gcagtttcta tacacacttt ctaggtaatc aaacttttct 60
 gatacatctt ttttgagagg gggttcacaat gaaactgtca ccattttttac taaaaataaa 120
 tacaagactt aaagtgttgc acagctctaa aatatacaaa ggcttggtt gaattgtaaac 180
 gttgaaaaca tcttacaaaa gaaaccatct ttgcagcaat ttaaaaagtt catatttaca 240
 aatattacaa aaatacaaaa tggatgcaag tccataaacc attgtcgttt cggccagcat 300
 gaactgggtc tagtaccaaa atagttacac tgtaaccttc ttcatagt 348

<210> 1724
 <211> 348
 <212> DNA

<213> Homo sapiens

<400> 1724
caatgctggc gtgccattca ttgaactttg acctaattaa tcactctggaa acctgttaca 60
atctttaatt gatagcactg tggtaagtta atgtataagt ttctaaatca atcacaaacc 120
aaacagcagc ggttccttaa accatgttta accagaaggg aggggacata atctgattat 180
gcatgacaag aaaacaaacc ccattttag aataaaatac tttaaattgg ttaattattgt 240
aaaccagccc cctcccaca cacacttttt aataatgggt taaacttttc cctttctgta 300
aggccatagc tggttttctg actagttgcc taaacatggt tctcatat 348

<210> 1725
<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1725
atcggtgttc ggacattttat ttctattatt attaacacat atttgatcaa aatgtaaaat 60
gttatgaata ttgataatta ttaaacaatga aagatgaaaa ttatttgga atgtgtccct 120
taataagatg gatattggctc tcttttccaa attattcatc gaatccgaag aaccatatga 180
catggttgga atgattttat ataatagaat tcagcctcaa ttctatttct atnnnnncan 240
tttttttag cttataaagg ctaaggaatc ttgttcgtat gagtaaatca atgggaatgg 300
aagcagtttc gttacagcaa tgccatttca ttctttgacc tgatttacat ggcaaaaatt 360
actcattttt gattatcagt tattaacttt ataagggccn ccttcaattt tgttgaaagc 420
agaaaattag ntaccacatt atttgcaaaa ggggttttag gnccaaacag ttccat 476

<210> 1726
<211> 287
<212> DNA
<213> Homo sapiens

<400> 1726
tttcacaaat gtcaatttta ttgacactag tgcacaacta aatacaataa ttgcaaagga 60
agtggaaact gtcaaacaga aatggtgaca atgagttaga actgcagttg tttcaaggta 120
ctacactatt atttaaaaaa aaaactcaca aaaagaaaaa tgttatcact acaagtagga 180
attagaagag agaaatcctg gcagtcgtgc tagagggtta aacatttcat gcatttgtga 240
gttgctggtg gagagtttgt tttttatttg tccaccgtaa tctggca 287

<210> 1727
<211> 478
<212> DNA
<213> Homo sapiens

<400> 1727
gcccgtgagt tttttaccat gctgctctga ccagtttgag tggcaattac caatagattt 60
gttttcttta ttctatggag atgtttttac cactgacact gttttctgat tatagtctgc 120
ttcatagaaa atagcctgca taatcaaaca aggagttact ttgaaattaa agtatgcctg 180
gctattaaaa atgcagattt taggtgggta aacatcaggt aggtctgggt gggcatggt 240
ctaggcctag aaaaatacac tattagacaa gttctaaaga aggcaaggag ataaaggcat 300
caggtggtaa cttctaattg aatattatat gttgatcata cataatatat actatgcctg 360
gaaattatga ctgaaaagca cctattcgggt tagtgctcct attcatgaga acatatctcc 420
aatactaaat gagataagcc tgttctaaaa tcttatagcc agtattttta gaaacttg 478

<210> 1728
<211> 278
<212> DNA
<213> Homo sapiens

<400> 1728
 tttttttttt ttttttttca cattctcaat atgcttttatt caacagaaca aaagaaggca 60
 aagagagcag agaaagcagt gcaggaatgc agactgcatc agaaggtaca tcaacttgcca 120
 ttcagggaca ctgcaagaga agatcaggac aactgacttg tcagatgaga actcctgagt 180
 gtagctataa tgggcaggat ggtagcaat taaagagagg actcctcatc tgcagctgga 240
 cctagactga gtttcagttc ttatggggat ataggtca 278

<210> 1729
 <211> 348
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1729
 agcttttttca ttttattgat gttctttttaa tatatgtatt taggattaaa ctagtgttca 60
 agtactaata atccagcaat tctgaattgg ggcttttattt tttaaaaaat acaagcacag 120
 ttagggaaca gagatgaaat tcttgtcaaa cataaaaaata tgaattgaat tgcttctttt 180
 tagatggatc tttaacattg acttgaccat atggacaatg tctgcacgca gagccacaac 240
 attcacctct ttgcaagtgg gcaatctgtg tgagcaccac atagccagta gctggatcca 300
 catagtttag ctggccagcc gcgcagcggg nccgtttgca ncctccag 348

<210> 1730
 <211> 392
 <212> DNA
 <213> Homo sapiens

<400> 1730
 gaacaagttt tgtctgttta tttaaaaaca gaatatcatt ttatgtacaa atatgcacat 60
 atttacataa aatgtacatg ttaggatctt agatcttcag gctccacatt cgaagtccta 120
 ggctggctgg ggaacgaagg atgggagcct ctcccttagg ccagaaatcc agcagatttc 180
 agactaagaa gagtttggtt actaaatcta ggtattctgg ctgagtgtat ctgggtgggc 240
 cagctaaaaa taaacctcat tgaactccag ccccaacca gagaaacatc cagaagagcc 300
 ttgaattagt gatccaaaac ccagggggaa aggcgacatt ctacccccca gcacctcctt 360
 cacctcacct caactcctac tctctcggtc tc 392

<210> 1731
 <211> 330
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1731
 ttttttaagt agcataatga cttttattaa tcaactgcatc tgggtgtttgc caaatgggag 60
 agaaacaata ctcaagcagc cttttgttaa ggggtaacaa gttatctgaa tgaagatact 120
 tcagcacatt taaattatat tttaaattata tcaagatagt gctataaaca ttttaattcca 180
 agtagcattc tcaataaaat aactcattgc aaaccnaatt gctctctaga gaagattact 240
 gggcagtctg tttcagtaat aacataaagc aagaatcgaa tcctctcagt aattaggtaa 300
 cagattaaat tttatcaatt atctactatc 330

<210> 1732
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature
<223> n=a,t,g or c

<400> 1732
ttccatttga aagcaaacat ttattgggct cctgttacac attaggactg gagatacagt 60
attaaaacaa gtacctgttc atgaaactta cattctaata ggaaaagatc attgattaat 120
atacaacagg tagtgataag tgctatgaaa ataatgcact tataaaaaga ataaagaatg 180
acagcagatg gggatatgaat gtgggggcat atggcctatt ttagaaagca tagtcaggga 240
atgtgtctct catcagatga tatttgagga gagacctgca ggaagtgagc cagccagcca 300
tgaggttgtg ctattggaca agagttgcag gaagaaggca gtgggtgtgc tgggtgctggc 360
tttgcathtt gttcctgatg gcatgcatct cttcccaaaa ctctggtat tccagtgaag 420
ggccaattta gtgggccccca aaaatagccc tnggatgagg ngtttttt 468

<210> 1733
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1733
caaaagaaaa attctattct ttttattcag tttttaaaca taccagcgag aatcaaaatt 60
gtcaaatttt ccaatggcaa tttctccaca ccagaaagtg gttgtgactc tcaaagaagt 120
aacaatttgg ggttttctct ccttcaaaat gttatcaaat cctgtatttc tcacaggctt 180
ttgaaacaca cagaaagtaa gaaatattcc aatgaatgaa acgtaccaa tgtcagtaat 240
acgcaagaca cattcctttg gggaaatggc tgtaggaaa aaaatccagt ctgtacatgc 300
aaaataagca aggaaattca gtctttcttt cttcttcttc ttgaaaaatc cgttactcct 360
aanatatcat tccacaaaaa ttggaagtga aagactaaaa gggtcaggaa aggggaagga 420
gagg 424

<210> 1734
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1734
aaggacgaat atctcattta tttccctgca gctctcatcc cctgctcatc caagcctccc 60
tccttccaga tgaataggaa cagggttacag ctgacctcag ttcactccca gcttcagaag 120
atgaatcacg gtgggttggc ggacaaggaa tggggcaagc tggggcagcg cggaaggcag 180
tgctgttttc aggaggcctg acctctgtgg ccagagtcct cgtcagcacc gcttactgca 240
ggccaagatg cctcccaccc tccagaatcc gaccgcggag ggaagcttcc agtccaggag 300
cctgcgggga aatcctggcg ggggctgagg gctncagccc ctnggcctng gcatttgggt 360
gcctcttttag ggatctttnc ctggggtgcc ctaaaagggt caaccgggtg ttccgtnctg 420
gaaagggccg aaaaataaat t 441

<210> 1735
<211> 565
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

108750-954560

<400> 1735
 ttcaatcaac aaggctttat ttacactcct taataaatc aggaacaat ttgatgtcat 60
 gtgcagccgc caaaaataga caatgtagca catcccactg tctggagaca gctacttgtc 120
 tatgctttaa tagtaacca caggcagcca agtaggggtc catatatcca ggtgttcaca 180
 tacagcttcc ttccagcatc ggtcataagc atgcctgcag tcaaaccact taagatcaac 240
 attgatggta aagtcttctt gatacttaat ttggaattaa cacttttccc aggaaatctt 300
 tttcttcttt ctggatctgg tgactcataa aattctataa gcatcttata tttgatttcg 360
 aaacgttcat gcagccatct tctcatatgt tcttngttct tctgggacat cttttttgtc 420
 gatacgatca atgtgaatat gaatttttgg acattctttg cagagaaatt ccgtcatggt 480
 cggtgactct ccttcgctgc ctccatcgtc tttcccttca taaccaccgt aacatcataa 540
 attgcatcta aataattcct catgg 565

<210> 1736
 <211> 246
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1736
 gcaagataag gcactttggt ttttaattcta tcagtctctt tagaatgaac gaaggctctgg 60
 gtcctctgga aatctcaagt ggtgctgcct gcanttntaa aaggctgagc acaaaccat 120
 cagagagcca cagtcctaag tagactcctc ggtgcgctct gccacactgt ccatgtgcat 180
 tcagatttct cattaaattt tccacagcat gaccagtggg gatgacctgg gtggccgttg 240
 tntcca 246

<210> 1737
 <211> 389
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1737
 ttaattaata ggagatttat ttatgcaaga atagtcaccc ttgccgaact tagtaggaga 60
 tgttaaattt tctgtccagt tttccttctt ggataagtct ttcctttctg tccctgtctg 120
 ttttgaaaac ataataccag aagatgaggg gcccaaacc tgccacagct cctaaaagtg 180
 agttcttggg agtgggcctg aaattaggat aaatatttgc tgatcttgca taggtccagc 240
 gaatcaaggc aggatcctcg atgtgcgaca cgcgtttggg ggtcgttgta ctgaagcaga 300
 tactcccgtt taagccgggc ccttatgctc aagcgcctga cctncgccct tctggtctcc 360
 ggagacacgt catactcggc aggggtcga 389

<210> 1738
 <211> 538
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1738
 ttgctggccc agcttctaca ttttatttat aaaaacaacc agtgagtctg ctagagggtt 60
 tgttttccat aagcgcccca gatacagttc acttcgtttc acgaagtctt ttcttcagat 120
 gtcacctcac cagcctatag ggaagggccca ccaaagtatc ccatccctct cctccctgtt 180
 atcctgccct gctcttcttc atagggtatta taattcgcca tttgtctgtg tgtgtattta 240

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gtgtgtatcc | ctctccacac | aagaatgatg | ttaggtgcac | agtaggtgac | cagtgaagaa | 300 |
| ttgttatgaa | tgaattactc | agggcctggt | ttaaccgggt | gccattctga | aagcagtcca | 360 |
| catctcctca | ccctacccg | tccctcactt | tagtgaggaa | ggagtcttga | gatgtactga | 420 |
| gcctccccga | tntctccctg | gcctacagtt | ttgggctcaa | catggcacaa | nggtgaangg | 480 |
| gattaggaca | ttctattcac | ctggtaggac | catcntgtca | ngggagaaat | tttgggct | 538 |

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<210> 1739
<211> 441
<212> DNA
<213> Homo sapiens
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| Sequence | Position |
|--|----------|
| <400> 1739 | |
| tttcatcaaaa acttgggaca tacatcaact tcatttcttt tcagtacctt aaaaaaaaaa | 60 |
| catcagttct gggacataac aaagaaatac taggagaaat ggtatctgga caggaacaga | 120 |
| aatgtccaca actgcgaggg attttctttt aactggcca cagagcgttt attgacacca | 180 |
| ccactcctga aaattgggat ttcttattag gttcccctaa aagttcccat gttgattaca | 240 |
| tgtaaatagt cacatatata caatgaaggc agtttcttca gaggcaacca gggtttatag | 300 |
| tgctaggtaa atgtcatctc ttttgtgcta cngactcatt gtcaaacgtc tctgcactgt | 360 |
| tttcagcctc tccacgttgc ctctgtcctg cttcttagtt ctttctttgg tgacaaacca | 420 |
| aaagaataag aggatttaga a | 441 |

| <400> | 1740 | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|--|-----|
| tatttttttat | cattttttatt | tttcaaccat | accaatgtat | tacctattca | caatttttaac | | 60 |
| cacacaaaat | caatttttaag | gaaaaccccg | taacagtgtt | aggagtgtct | cttttcagta | | 120 |
| cctgatatga | tacttttcgcc | cggctaaatg | actggcccag | taccctgact | tccagaacct | | 180 |
| gtagccgtcc | atttctcttc | ggctgtcaca | gaaaggagt | taaccataag | gagcaccatc | | 240 |
| caaattgaaa | tctcttaact | ctttcagatc | tgttcgtaca | atctgatcag | catccacaaa | | 300 |
| caggaaacttg | tcaacaacta | gtgggaaaag | tacatccagg | aagaggatct | tgtaacccca | | 360 |
| gatgatacgc | tgttttttcag | tttgttgang | aagccaccgg | ggccatttgt | actggaacaa | | 420 |
| gctcactactg | ggaaattgta | nttcatttgc | catgtaaggt | ataaactcct | taaatgtggg | | 480 |
| ggacaagtaa | ttcttcaaga | accagaattt | cacaggagtc | ctggnattct | tcagcacgga | | 540 |
| tagcatcatn | atgcgagaan | g | | | | | 561 |

| | | | | | | | |
|------------|------------|-------------|-------------|------------|------------|--|-----|
| <400> | 1741 | | | | | | |
| tttttttttg | ttttgttttc | atttttataac | tataaaattca | agcttaggga | agcttgtttt | | 60 |
| tgtcctggaa | aacaaaacaa | agactaaaca | aagctttttt | gttgttatta | tttgcaaac | | 120 |
| tgacctcatt | tagaaagaga | tgtaactgca | tggctagaac | acagcttcta | gcatgaatga | | 180 |
| tgcaggtgac | tggtggtact | aagaggagac | aatgaactgt | tgacaagatt | ataatctgct | | 240 |
| ggtggcattg | ctgaaaaaaa | gcccttgcaa | atttctaaac | aacagtaaac | tctgttagga | | 300 |

<221> misc feature
<223> n=a,t,g or c

<400> 1745
gaggtcataa agaactttaa taattcagag aagaagttca aagtgtatattt aaaagttgag 60
accctgcttt acaatatttt ataattttaa aaaaaggcgt ttaaagggtga taggtgactt 120
aataattttc cactttcaaa atgggtttct agacactggt gttcatgaac caaaaacaaa 180
caaacaacaa aacaacaaca aaacccaaac actttggcaa gcaaagtatt attagtacat 240
agcagcttca taacagttta cttttttaat ataaagnngg 279

<210> 1746
<211> 337
<212> DNA
<213> Homo sapiens

<400> 1746
tttttttttt ttttatcttt aaaaacagat ttaatgtggt aaaaaaaat agaatcaagt 60
ggtgtgcttc gccactgaga tgattgtgct gtggctccgg ggccacatag caccagggct 120
cgatagcaga caggagtttc ggccctcgct cagtgcattg gactggtgca ggggaggagg 180
caagccgcac gggggccaga gcaggaacac agccacctgt tccaacaggc gctgtgcctt 240
gtatgccccg tacatgtgcc tgccctgaga ggagcatggg ccaggcctct cttccagctg 300
tgcccccagg gtgccagtga ggcagggcga cctctca 337

<210> 1747
<211> 563
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1747
aaccaatcaa ataatttctt tattgtgctt ctacattttc ccaataaaaaa cttgcacttg 60
atgttttgtc tctggaatac taacgctctt tcagtcagggt gttccccaat tcataaattg 120
cttttcactc aaataaaccc tttaaaattt tgttgtagt cagatgtttc tttaacgcatt 180
ggttgcaaaa cgtgctgtta gtaaggaaca tgactgagat ctacattcag gtcctagtgc 240
agtttctttt gctgtcacca gggccatctt gctggcttgc acagggttatg tgataatgac 300
tgggcatcat tcatgggaaa ctgcactgct taagggccct gggctaggcc caccagtagg 360
ccccgggcac attttcagct gcgacgaagg gactagcaac cggtgangta gaaggagAAC 420
caagagatgg gtgggagaat gggaactgag ctgagagagc ttccggaagg ttgcgggtggc 480
ctaggngaatt ccacgtcatt gagaaacggc gttagctgat tttcacgggg gcagatgaca 540
tggaagtgtc gctgaaggaa aca 563

<210> 1748
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1748
ttttttaatg cacaaggtt ttaatacctt ggctttaatg atttttcaag gttaagaaac 60
aaattcaaat tgggtggagc ttcaactcag taattacaat cacaatgcatt ctctganagg 120
ccctgcattt ggaggcagag taatctgcaa agatgatngt ttttacatat gtcctgttac 180
ctacaccaat ataattacna cattgtctta taaagacaaa cagttgcttc aaactcttta 240
aaag 244

<210> 1749
 <211> 572
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1749
 tttttttttt tcccaagtca gagattttat tgaaaaaaa aaattacagt acttaaaaat 60
 tcaaacaagg acgattcagg gttgaaagaa agaaaaccg aagagtccat tgtcttcagt 120
 aaagttttta atacaaaaaa catagaccag aaaaacagct tatggcctaa tgcactagtt 180
 ccatgataaa cacacatata tagtatgtct ccatcaagtg aaacttcac acctttttac 240
 aatttagaga gggaaagcag ctttttagtat ggttaagcca tgtatcatca ataccatgaa 300
 gctagcctat cagttgtaat agcttctata aaataccaca gtgagattgc aataagccta 360
 gaaaatgggc taaaaatccc agctatgctc aagcaagcag tgaacaaaa ataaaaatag 420
 gtaaaactga accaagaact agataggctt ctctagattc tgattgataa ggcaagttct 480
 aggccaggtt ttaaagtggc ttattcagat ctaaagacgt ctttaccgat taacnaagca 540
 tttgtattcn gaaaaaaact gantttcctc ca 572

<210> 1750
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 1750
 taaagaataa tttttattat ttgttcatag ccaaagtgtg agggttttct aatctacccc 60
 caaaaagaat ttgttgatct accatgtaaa aatcttatct gtattgtaca aaaactcaat 120
 gcatttttaac acagttttga tgttaatttg actttgtag tatgtttttg tagtcgaagg 180
 ccatgggtct tatatctaag aaggaagaca ctttggtat ttatttataa taattttgtt 240
 ccattctctt tcttgtctgc tctcttttct ctgcttaaag tatgatgtgt cacaactata 300
 ataaggcaaa tgattcctat caaaccatt gctgggttaa actcctttca atataagata 360
 atctctggca ggtacaggat cagaattggg ggggaataaa ccagaagcgc ctgggcaatg 420
 gttagataga 430

<210> 1751
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1751
 cccaatgatc tgaaagttaa ttttttatta gatgctctag aattcttgac tattagtatt 60
 taaagaagcc taagtataaa agtcaactca taaattactt cgacatacag cttctgaatt 120
 gcaatctcaa aagacagaaa taaccgagag ttggctataa aaattataaa tggaactaaa 180
 aatttaaaca ataaaatgat caaagaatgg tttgatctac aattcctaaa caacctgatc 240
 aaagtacaaa ggataagcaa agtaatgttt ttttgaagtt caaagttgaa aagtagaaag 300
 tcgngacaca aggagntaat aaaanatcta acccnttgac cagggaaaag ttac 355

<210> 1752
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1752
 ttttagtgtaa attggcaaat tttattttaa cctaataaat ccatgtaaga ctggactgta 60
 ctgtctcgat tatggagtct cattataaca gcatccttag gggttacatt gtggcactac 120
 ctaaaaggta aaagtgctgc aataagggct ctgcaggcaa ttccatcaca aaaccccatg 180
 gaataggatc acctcccacc aatcttttgc taagcactac tctctggtaa agagtacaga 240
 agtttcaatg ttttgatttt tttttttcca ggttggcatg atacaaatgg cagcacacaa 300
 aaacaatggt aaaaaataaa ccaaataaaa ggctgtacac nagaacttta tgtttattgc 360
 aaacaaacna accaaaaaaa aagggaaga gagggaaagg ggaaaatggt cngaagcncc 420
 acnttttagg gtaagaattt taaagcntcc ttacantct 459

<210> 1753
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1753
 ccaaagtaga tcctttattc aaaatctgtg ggggtttttt gactgttttt gctgacctgt 60
 gacctctcac tgaggacggc agtcaggacc acccccagag gttcaaagac ctccgaaacc 120
 agagaccacc cccacataca ggtccatgga gagggcctgg accatctgga cccccacggt 180
 caggccaagt cccagataat agcaccagat gtttctctgc cgacttttgg tctccccaag 240
 gcgaccagag gccgagctgc ccctacacan gcgcaaggcc gaggcagggc gcanacangc 300
 atctcaggtg tccatctcgc cggcggggnc ccagcggacc ctgggggccc agagtcagag 360
 ancggagatg agcgagcgca gggagtctgg ctggaggcac tcagaggcng tagcccgca 420
 gaaccctcag cctgggggtc ccgggggang cagggaagg cagcct 466

<210> 1754
 <211> 258
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1754
 tttacacttt actgagacaa ttttattcac tatggatata tatacatgat caacatttta 60
 tcttcattct tcagaagact taattagagt agctttcttc tcatacttat ctctaatttc 120
 tttaatattt tccgagagat cttctgacat gcattcntca tattctctat caacttttagc 180
 aatctgctcc tcaagatggt tctctacaga cccaacatgt gtagcaacca tctctaacag 240
 acgttgcaag ttaatttc 258

<210> 1755
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 1755
 gagataatta taaatgctcc ttttgctttt tattaaaatg tcacagcatg cctagagaac 60
 agtttatatg gctgcataaa gtctgaaaca caagaaaact aataaaaaac cacctgttaa 120
 atacacaatt atgattaatg atgtcccttc aattaaatct tgtgtgttta aaatgaaaaa 180
 cacgcagcct ggtacaaata tccatatttc aatttgcatg ctgctgcatt ggcatgagtt 240
 ttggtgaaac tgcaaaatca caccagtagc tcttctgtac gtcattccact gtcaggcctt 300
 cccagagctc aatcagagtc aaccctttct tcttgtccac atcaaacaca gccttttcag 360

taataatgcg gttgacacat tgctttccag tcaatggtaa tgtacatttc tccatgattt 420
tatgtgcatt tccctttgca gaatgctcca tggtgaccac 460

<210> 1756
<211> 394
<212> DNA
<213> Homo sapiens

<400> 1756
caggctggga atgtcacttt atttggattt ggttcgtggg gtgggggtct cagaacaaac 60
tagaaggcct tacataggca gctgggccc gccagctggc gtcctgacct aggacttcat 120
tctggcctgt ccccccaaag catagcctcc accttctcac ccttctccag aggagtctcc 180
tccacccccca caggagctgt ggacaggccc tgcagcccta ggggaaggagg aaggggtcctg 240
caagtagaca ctaaggcaca gcggtggccc ggggtcataa gggctcttct ggcgggtggca 300
tctgctgggg cttccagctg ggcggggggt ccacgcaacc actgaccatc cagaagtagt 360
ttgggtgcac ctggccctgc acggcctcgc taac 394

<210> 1757
<211> 459
<212> DNA
<213> Homo sapiens

<400> 1757
ttttttttca cacagaatgg aataaaactt tattcttttt aaattccaca cataaacgag 60
atgctgaaaa agcccttgcc atctctgaca gaaaagcaga gcagctctgt ttcataaacg 120
acagcacaat taaagctaaa ataataaaa aataattcga aaaaatccct tttactgtac 180
actctcaaag caagaaagag aaacaacagt tttgttttgt ttttttctgc tagccagaaa 240
atgtgtttct attcatttgg gctttgaagt tcagtgtacc ccacatctgt gtgtctgtgt 300
gtgtatgcgt ggctatgtgc gtgtaatacta tgcagtgtgg aagcccctaa tcttttctac 360
tagtttgctt aatcattaag ctacttaacc aattataata ctattatgtc acattgaaca 420
actttacata attgcttctt tgaaatacta gaaacattg 459

<210> 1758
<211> 297
<212> DNA
<213> Homo sapiens

<400> 1758
aaagtaataa acttatttta atagtgcaaa atgtaatctg ctttccaacc aatgaaagaa 60
aaacttgcaa aaaatttatg aaactagtca atacctgaa caaagaaaaa cacaaataac 120
taagtaataa ttacaattgt gtactccaaa cccaaaaaag cagagaccgt cattacaagc 180
caaactcttt ttagagttgg ttgttgagg ttactaaaat gcgtaaaaca aaatctctac 240
ttttcagact tacagaaaag aaataactcc aataagaaag ctaacttaag gtttcat 297

<210> 1759
<211> 203
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1759
aacagtttac ttttttaata taaagatttt ncaatttaca cttgtaggag tagaaaaaac 60
taatatgcta agnctgtaag ctacgcagca aaaataatga tcttaatgaa gccagaattc 120
tgtgaaaatg tgcaccacac tgcataatata gtagctgagt aatgtaaac catgngctta 180
ttaactcttc tatataaaat att 203

<210> 1760
<211> 354

<212> DNA
<213> Homo sapiens

<400> 1760
 tttttttttt ttttttagag atcataaata cttttaatat cagataaatc attaagaaat 60
 tgcattctgt acttgatgac cacacgggaa ccttgctaga gtcaagagaa cttgtcacta 120
 gtaattatga agacaccttt acggtgagcg ttattaaaac cctactagag gttttgggtg 180
 ggactcaaga gcaaggggtg gccacctgtg gacgagggtt cctgtttgtt aacagaacac 240
 gttgcccacc tcgcaagtat gcagcccaat cagtccccag ggtctcggtt cccgttgcg 300
 ccttcccat ggccactgcg ctcatcatg agcctagggt gatcaggcct ccgg 354

<210> 1761
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 1761
 ctttgggttt tgttttgatt ctgtttgacc cacttaacta aaatgatact atagatcctt 60
 caaaagcaga atcatgccag ttacacatct caaatccttt gatctactta cttcgtactt 120
 taagaggtaa atttgagaat gaaaatggga gactccaatg caataacacc tacataagga 180
 aaaacacaca taaacaccca cacatattcc ccagcctcaa aactaaagca aggtacacat 240
 ttacatttcc aaaccccaaa gcctaaactg tccaggaaaa gattctagct ttgtgggctg 300
 agtttatttt gcttctgggt ataaacaaat gtagtgtata cacacatctg tccaagaaat 360
 cttgcacaag gtggatttta catgggggtat catgcacaag attaaaaaca agacca 416

<210> 1762
 <211> 136
 <212> DNA
 <213> Homo sapiens

<400> 1762
 gatccctgta gaggtggtat taaagatggt cactgagatt aagaagattc ctggtatttc 60
 tcgaattatg tatgacttaa catcaaagcc cccaggaact actgagtggg agtaataaac 120
 ttcttgttct attaaa 136

<210> 1763
 <211> 442
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1763
 ttttattcctt gacatgggaa aattttatga aattcaaatt ttagtgtcca taaataaagt 60
 ttatttgaa cacagaatat gtaatatatt cattgggtta tgtatttgct tgtatgccta 120
 catctgatat gcaaaactat gaaatattca tacatataaa aggcagggtca aaaatacaac 180
 tataaaaaat ttataagtaa ttactttta gccctttgga gaatttattt aacaattaac 240
 acatggctac cactacaatt ttttttattt ttttgagtca agagttactt tattgcccag 300
 gctggagtgc agtgattggg tgtgattgtg gctcaccgta acctcaaact cctggggccc 360
 aaaggaatcc tcctgcctca gcctcacaag taggctgaga ccacagggca tntgccacca 420
 taccagcta agnttaaatt tt 442

<210> 1764
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 1764
 tttttgaagg cttaagcaat cggggacgag ctttattgag gcaatcacat ccacatttca 60
 gttgtttgca atgattggca aacggatgag ttaaaaaagc cttctgcttc cacactgttc 120

cgtctacatt cagaaagcag taaaaatata ttctgtgcaat gaacactttc caccttaagc 180
gtatcatgac agttcacaaa ttgccaaca gacaatgcaa aacaatattt acaagataga 240
ccctttgtaa gttccaaatt tagatacttg tgggtgaatt ctaaaactaa catcgcatgt 300
ttttccaggt 310

<210> 1765
<211> 447
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1765
ttcggttctc agtggttgaa agtaatatgg taaaacttct cttctccgag gacaatagaa 60
tagtatttgt tgtatagact gaaccatcct ccaaaatttg gaagtcagga tcacttgaat 120
gaattagatt tgcagctgta aagcactctt tcagggttaac tctaccaaca agtttctcgg 180
catctagttt ggaggggaaca tgtaatgtca catttttgca ggcactactg gcaaataatta 240
agatcgcgag ggtcagcagg agcagccggc agagggctcc gttccaggag cgggacgggc 300
ggngctgcct ccatggagag ggctcggggc aggtcgcggg ccgancgtcg ggccgggggt 360
taggagggct ccgcgggggc agggccgcgn cggaagcgca gtctgggccc gctgctcagg 420
aggaacgcga agcgangggag gttgggg 447

<210> 1766
<211> 450
<212> DNA
<213> Homo sapiens

<400> 1766
aaatcttaag gatgctattg aagggttttt tgataaagta gccaacagca ccaaaaaata 60
acagaatgga ttctctaag aaatcaggca caggtctccc tcatgtgacc cctccaaggc 120
aggcagtctt ttccgtcttc ctgcgtcgtt tttcttcttt cctggaacag atgcatagt 180
atgtgctggt ggagagccca ctgcgtcccg tctcctcgtt ccacctatgg ttaggaaaca 240
acgtccgcct tcagctgccca caaccgccca gagaaacaaa acggggggtgc cccggcttcc 300
cagatcacia gctcatctgg cacacggcag aagacgacag ccaaagcaaa gccatttcaa 360
gtttcgtgtg tgtgtgtgtg tgtgcgcgtg tgtctcctat cccttctaaa aaatctggct 420
cacatgactg atggttttta aatttgttct 450

<210> 1767
<211> 441
<212> DNA
<213> Homo sapiens

<400> 1767
ttttttttgt tttctacagc accaaagaaa ttcaaataagg aaaaggagag ttgagaattg 60
ggaatcaaga atcagccctg ttccatctt agccacacca acttatatct ttatgatttt 120
caaagctttt gccatgtgat tctgccccca caaaggcatc ggtatttcct aaatggtacc 180
tgtatatgca gcgttggttt ctataccatc cttattcaaa acttgcattg ggcacaaaat 240
gggttggtgg gcaccaaggt atattttctg ttgatttgat atgttctttg tcttaattct 300
aggccaagga aaacaaacag ggaccaactt caaatccgaa cttctggatt ctgatcaca 360
aaggtcattg atccatggac atcaacatag gggacttgga tcaatttttg ggggtattgg 420
atttccatgg acagtttttt t 441

<210> 1768
<211> 328
<212> DNA
<213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1768
 tgagccaaaa tatatatact taatttttagt tatgccagaa gtaagtataa tttctcagtc 60
 caaggatggt aggaagcaac ttacagagca tgcttcaaat agantttctct tggcctttga 120
 aggttaactat tttcaaaactt aatagtagag tcaagcaaga ntggacaatt agagtttnca 180
 aanttgaaaa ntattatgta ttttatataa tcattaccta tggtttacag attttatttt 240
 tatgatacat atctctaagg taggtgggta cactgaggac ataggcaant atgccataa 300
 atacttattt aagctggaag tganctaa 328

<210> 1769
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 1769
 aattattact ttttattaat ttagagcatt tgaagtataa aaataaaaagg cttttgacat 60
 actgtatata catacatagc cttctgttgt acatcctttc caacgtgttt tttaaaattt 120
 atatttcagt ccaatattca ataaaagggt cattaaaaac aaaacaaaat tgtgaaaaaa 180
 aagaaataag aatgtgtctc tgttgacaaa ctgcattcta tccttgacagg taatattctt 240
 acatccaatg agagcgtctc ctgcatagag gtcatgaaat tgaaccttta acctctccat 300
 gtggatcaga tagaaaagga tttctgaaga gtgcatttgc cagtttaaaa gcaacact 358

<210> 1770
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 1770
 ttggctttca atgcttcac agctttttgca gcagcttcaa gaaccagctg tagtctggct 60
 ttggctgttc agctgggtggc agatgttcta atccagcttt gatgtttcca gattccccac 120
 gtttgatggt atgtaattcc ttgtccttcc ctttatcctt ctccttttct cttttctctt 180
 tatctctgcc cttacgtcgt tctctatccc gagaccgact acgcgttctt ctgtgactgg 240
 acctttcact gctacgacta tgagaacgga gacgaggtct tgacctggac cttcttggtc 300
 tgctttttga cctagacctc tgaactctat aggatttccc tccgaccctt ttgaacgact 360
 tcgacttcgt ttccttctgg agccataaga agagctactg cttgatcgat gcctgcgtct 420
 tctatcataa gaatgtgaac gaggtggaag atctctggac caa 463

<210> 1771
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1771
 tgtagttcaa taatatttta ttgtcaatag cataggagaa attcaatatt gaatctcaga 60
 acaagaagaa cctatttaca atgcatgtca aggaagagat gggagaagga atgtcacaaa 120
 atttttttgg aaatacatat tttttataga gaagtaatcc atgaacctgc aacatggata 180
 gcttatccaa ccaactttac aaattactat taatataagt tacatgcttg ccatctaaag 240
 taactaaacc catagactga aaaactatgt gtcaaggtaa cgtgagcact ttaatcactt 300
 tacttatatt ttctaaaggc agtagtttcc tctccttttc ccgctatcca tattaggatg 360
 aagagacaag ttcctttcca acaccaaatt ctggatatcg ggctatttgg ggaggaatcc 420
 ctggtggcga gtcagctaga agccctggc caccaggnc caggtggcca acccaatgg 479

<210> 1772
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 1772
 gtgatttcca aggcctttat tttatagggg agaggaataa aagatcaatg ctagtgggtg 60
 tttcgtcatg agcccaaagc ccgttgggag tctctgcgag gtcatttgcc ctttagattc 120
 tgcaaaggca aaaagaaatc gatactgatt tttaaaaata tatcttagga gccctgggtc 180
 cctgctgatt ccatggatgc ctggagcact tgtatctgga gaatggagac aatatcacc 240
 caagcccgaa ttcatttgat gagactacta tgtataaaac agttaattat atacataaat 300
 aacataaaat aattctcata aattaaaagt caaatgatct cccactattc attcaactga 360
 gaggtgagag ctaggcgcga gtgatggtgg gtaagggtgcc t 401

<210> 1773
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 1773
 caatcccgt gaagaattgg aacatagtta tattggctgg aggtttggac attcctagag 60
 caatacatat gcctttcaac tcttgaaaga cctcactacc gcctccttct tgagcttttt 120
 ttggaggagc attcacacag agcattctgg cagcttctag ttctgagatg aggtatgtga 180
 gcaagaggag gcagttcttc tgaatgagaa ggcgcttggc cacatcccca gatgtcagtg 240
 aaagatacgg gcagttcatc tcccctagta gccactcac ctcaagctgg aattcttcag 300
 cttcactcgg actgttagtt gcttgcacgt tttcctctag ttacagagc actcttaatt 360
 cagacaccag ccaagcacag agttttggta aactcggggg aactggctcc 410

<210> 1774
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1774
 ttcccaaagt gctgggattc caggcgtgac accgcgccc ggcccacagt tttattcttt 60
 acaggaggtc agtgcccac atgttccctg tctacagaca aataaaaagc tgctctctcc 120
 agaggggagg canagtccctg atggtccagt gagaccaga agcttccagg agaccttcag 180
 tcccagagtc ctttcagtc tcatcttctg agtctgactc ttctgtggac tcagatgcgc 240
 tctctggcaa gtcgtctccc atctgctgga accttccga ctgtgaatcc cacatgtatt 300
 tgatggtcac cttgaattca gccatctcat acccaaaaag cttcaggacg cgagcctgct 360
 ctgggggtcag cacatcgccc tccttgacac cctcgtaagt cagacagcag aagtcac 417

<210> 1775
 <211> 115
 <212> DNA
 <213> Homo sapiens

<400> 1775
 aaaatgtgga actagtattc attttttatt caaatatttt ataaattatc atattggagg 60
 ccctatagtg tggtagttta cagcatgaac tctgtattcc aagtgtcac gttcc 115

<210> 1776
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 1776
 tgtatgtttc aacaagaaaa actactgttt attttttatg tcaatattgt agttacattt 60

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-----|
| tcagaatcac | atgctgtggg | aaaaaatcag | caagcagaag | gtttataata | aacccaaaaga | 120 |
| tttatttata | acattttctg | aattcactta | aaaaacaaaa | aggaatcccc | cttccctcaa | 180 |
| aatagaaccg | tttcctacag | attccatcca | gtatgacttt | tcagatatct | aaggagattt | 240 |
| tgctacactt | attacaatgg | tagttttccc | acagtgtaat | tctctgatat | aggtttgaaa | 300 |
| tattgcagaa | agtcactcta | cattcattta | tacagttgct | ttttctccta | caagagtatt | 360 |
| aaaattttaag | tattgcattg | taaatggaag | gcattcccaa | atcactgggtg | gtttg | 415 |

<210> 1777
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> | 1777 | | | | | |
| ggctgctgct | ccttgctggc | gggctgcccc | tgcgcgctcc | tgaccctctg | cagtctctcc | 60 |
| aggtgcagcg | tcctcagatc | aggctggtct | gggccacgct | gctccctggg | aggctgctct | 120 |
| gtctgcgcag | gggtaggggg | cactggctgg | agaggggctg | ggcaccggtc | cctgctgggg | 180 |
| gtcccagggc | tgctcggggg | cgcggggccc | tcttgctcac | agtgatgaac | ctcctcttcc | 240 |
| cttccccgga | actgtcgtgc | ctcagcccgt | gctcctcggc | tatttggtgg | acccgcagcc | 300 |
| tgtcgtggga | attgagggaa | ggaggaaact | ccaacttgca | tcttcttgct | ggccatgaac | 360 |
| ttccactatc | atgggccccg | aagtggcca | cgccaatctt | ggctctccac | ttcctctggg | 420 |
| gcttgccctc | gttgaagctt | ggggctgaga | tggancttc | | | 459 |

<210> 1778
 <211> 397
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> | 1778 | | | | | |
| tttttttttt | ttttttcata | gatatgatta | ttttatttat | aaagctagtt | aagcacaccg | 60 |
| gagataaatg | atttcactta | tgaaatgttt | tcttatcctg | cagttatatg | atacaggatt | 120 |
| taaaggaaga | gcaagttnc | taagtctata | aactccagag | caccctctag | tggacttgag | 180 |
| ggtgggaaat | aatttcactg | aagatgaaaa | ccctaccaca | attcagactt | gaacatttca | 240 |
| ggacagattg | ggaggttaaa | ctgaagacaa | tgaacaattc | ttctctacct | acaaaaagac | 300 |
| tgcaattgtg | ttacctttta | gacttacaat | tctgaacggc | ctataactta | ccaaaccaat | 360 |
| tnggcctttt | aaaaaagggt | acttggcttc | ccccccn | | | 397 |

<210> 1779
 <211> 478
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| <400> | 1779 | | | | | |
| cttgaattat | tgcatcaagg | actttccccc | tacttcgatt | cattgctaata | gagctctttg | 60 |
| cttcttcaac | tttttgaaag | agatcatgaa | ccaaactttt | aaagtttggt | tcttcttggt | 120 |
| taagtttttg | aagttctttt | tctttctcct | ttaattcttg | ttcagtttga | gggagttttc | 180 |
| cttctatata | tctgattgca | gctttccttt | ctttgagagt | ctcagaagct | gcaattagag | 240 |
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| tgaatgaatt | ttttatatgg | tgcaaggtgt | caatccacct | tcactttttc | ttgggaatat | 2100 |
| agatatccag | ctgttttact | accatttttt | gaaaggactg | cccttttgctc | tatcaccttt | 2160 |
| gcatttttgt | taaaaagtag | ttgtcaatgt | atatgtgggt | ttatttcagg | actctgtttt | 2220 |
| gttcattga | cctgtttttc | tctcctgaat | gccaatacca | tatttgtagt | tagtgtagt | 2280 |
| aattttctaa | taattcttga | aacagatagt | attaatgcgt | catatttttg | ctgttggttg | 2340 |
| tattttttgt | ggagatgggg | tttcaccatg | ttggccaggc | tgtgttgaac | tcctgagcta | 2400 |
| aagcaataca | cttgccctgt | cctcccatg | tgctgggatt | acaggcgtga | gccttggtgc | 2460 |
| tggcccagtg | taccacattt | ctttttgaga | tttgttttg | ctatgttaag | tcctttgctt | 2520 |
| ttgatgtgaa | atttggaac | aggcagggtg | tggtggctta | tgccctgta | cctagaactt | 2580 |
| tgggaggcct | agatgggtgg | atcacttgag | ctcaggagtt | ccagaccagc | ccgggcctat | 2640 |
| ggcgaaactc | cgtctctaca | aaaaatagaa | aaaattagcc | agggtgtggtg | gtgcatgcct | 2700 |
| gtagtcacag | ttacacggca | ggctgagggtg | ggaggatcac | ttgaacccca | gaggtaaga | 2760 |
| ctgcagtga | ctgagatcac | accactgtac | tccagcctgg | gtgacaaagt | gagactctat | 2820 |
| ctcaaaaaga | aattaggatc | aacttgtcaa | tttctacaac | aacaacaaca | aaaacccctg | 2880 |
| ttgggcacct | tgattgagat | tgcatgtaat | ttatataaaa | ctgttgggag | aattgacatc | 2940 |
| ttaataatat | tgagtcttct | ggcctataaa | caagggtctgt | cttcctaggt | attaatgttt | 3000 |
| tgtcttctat | ttctcttaat | aatcttttgt | agttttcagt | gtacagggtct | accatgtcag | 3060 |
| catttcatag | ttttgatgct | aatgggtatt | ttaaaatttc | aaattctaac | cacttggtgc | 3120 |
| tagtaaatag | aaatacaatt | gatgttgaac | ttgtatcctt | cagccttgct | aaactgtgag | 3180 |
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| actccttc | | | | | | 3248 |

<210> 1793
 <211> 2538
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | cccttttatg | gatgccctac | aggactctag | tggttggtcaa | ctcattttctc | tccagtcctt | 120 |
| | tccaagaaaa | ttgggtttttg | ctctttttgca | gaatttgcat | ttatctcaac | agtgccatca | 180 |
| | acccggtgat | ttacaatctc | atgtcccaga | aattccgtgc | agccttcaga | aagctctgca | 240 |
| | actgcaagca | gaagccaaca | gagaaacctg | ctaactacag | tgtggcccta | aattacagcg | 300 |
| | tcatcaagga | gtcagaccat | ttcagcacag | agcttgatga | tatcactgtc | actgacactt | 360 |
| | acctgtctgc | cacaaaagtg | tctttttgatg | acacctgctt | ggcttctgag | gtatccttta | 420 |
| | gccaaagttg | attcatgaat | tagaagaaaa | tggatgacaa | agaaaatgag | aatctgtgca | 480 |
| | gtcatcaaca | aaagggagaa | catggccaat | agtcatatgt | gaagacagag | cagatcagtc | 540 |
| | tttgtcaatg | ctctaacaaa | ttctggccct | agatacttta | acccatgagg | atgattcaga | 600 |
| | ctttccttct | tacaaactaa | tatcactaaa | aatggagcag | atctgtgaaa | tagctaaatg | 660 |
| | atggaaactt | aaagttagc | cctttttcatt | taacttaaga | aattcactat | attttctgga | 720 |
| | cttatagagt | ttcaataaaa | tctagacatc | aatttacatt | attcatagta | accttatcaa | 780 |
| | atgtcacttt | tcaacttccc | taatttat | atacattcga | taatttgaca | acatgcagat | 840 |
| | ttttaaatgt | ttgcatttag | tattcatttt | aacatagtac | agggttagtt | catgaatctc | 900 |
| | tgaaattaaa | gggaaaaata | ttacagaaac | attttattta | ttgagtaaaa | ataagatttt | 960 |
| | agacatacat | gttaactgta | ttttaaaagt | tgccataatg | tttataaaat | tctgagatga | 1020 |
| | tttttatatc | ttagaaggta | gataatcatc | actcaacttt | aatgtaaaat | aaacctcaaa | 1080 |
| | atatctgaaa | ttattaatta | aggagaaatg | tagattttta | gataaatcca | actcttatca | 1140 |
| | actcttccag | cctcccat | gatgggtgga | aaaaggcaaa | agcccagatt | aagtaactgt | 1200 |

| | | | | | | |
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| gaagatacaa | actaacatac | aattaaattt | gaaaagtata | gtcaagacaa | agcaagtatt | 1260 |
| tataattaga | ttttgcttct | tctctgacgc | ttttaagcaa | taaaatcttt | ttgaacattc | 1320 |
| ttgtttataa | actactcagc | catgtcaagc | aaatcattca | agcaaaatct | agctgaaaag | 1380 |
| tctgaaacat | tcttaaaagc | tttgttattc | taagtcagcc | aaaatcctgg | tatccctctt | 1440 |
| ccagataaag | agctcccact | gagaattgta | gtctatggat | tttaccttga | ctgcaattgt | 1500 |
| ctttccttcc | tatctgcttg | ttgtttgtag | gttctttttt | tgtttttctc | aaatgctagt | 1560 |
| gatattttgt | ttacagattc | taaaagcaat | gcaaaattct | gttggcttta | ttttcagcag | 1620 |
| agttaaaact | gatttcatca | tattatcagt | atgtcatctt | tatatattatg | actgacatct | 1680 |
| gctattccag | tgtttattgg | agacttgatga | atgaatctgt | ccaggacact | tgtcagttcc | 1740 |
| tacctgaatc | tcttacctat | tgagatttgg | ccaaccagaa | tctccgaggg | caaaaattgc | 1800 |
| ccttggtgat | ggttcagtag | tcattgattt | ttaatgagta | gatcaaaaaa | gtaccatac | 1860 |
| ctttacatgc | cogtaggctg | tcattttccc | tctccagcct | atatccctat | tttatggact | 1920 |
| tttctagaac | ctaatacgcta | atgataatta | tgcctcccca | tcttcttaat | gaagaatata | 1980 |
| ccattcttct | gaaacttggt | tttacgtgct | gtttcatgga | gactatgcta | tccagaacct | 2040 |
| cattctagag | tgcgcttttt | tttttttgaa | aattggcctt | atctactcca | gcaagacatt | 2100 |
| tttatcctgt | tactataaca | gtaaatgaat | gcaagcaa | atgtgcagga | aataccctaa | 2160 |
| aaccctacct | gcatgacagt | aagcaatcta | tgttaactga | cttttcattc | tgggtataaat | 2220 |
| attaatcttg | gcatcatata | aatagagcac | cagagtgacc | caaccccaaa | tcacacaagc | 2280 |
| acatgtgtgt | ttataaacac | ataccacat | gttcataaat | tgggtgaaaaa | ggggattgga | 2340 |
| atatacgaga | ttttttcatt | acagaaagga | cctaataatca | ttgagcatcg | actatgtctc | 2400 |
| aggtatgctg | gtaggtagtc | aatcaacatt | atcttcatca | caatttctact | acagctgtaa | 2460 |
| tttctctgat | gattagacca | gtattcctgt | gacctaatte | ctaattaata | aaaagttatg | 2520 |
| gattttgcag | aatgatta | | | | | 2538 |

<210> 1794
 <211> 458
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | gagcttctga | gaactaggga | ggagccatcc | cagccatgag | cccctgtggg | aatctgctgg | 120 |
| | gggccaagtg | gcctggagtc | ctcaggctcc | cgcagctgct | ccggagggag | aggtgagctc | 180 |
| | agggcagcct | gcctgcagcc | agaggtgccg | ggagccccgg | gcctgtcatg | gtggccatct | 240 |
| | acagccggcc | tgaggcagtc | acagacggat | ttgcagctga | gcctgtctat | ctggtgtggg | 300 |
| | aagaagatgg | ggagttactt | gtcagtcccg | gcttacttca | cctccagaga | cctgtttcgg | 360 |
| | tgttcagaat | gccaggattc | cctcaccaac | tgggtactatg | agaaggatgg | gaagctctac | 420 |
| | tgccccaagg | actactgggg | gaagtttggg | gagttctg | | | 458 |

<210> 1795
 <211> 6896
 <212> DNA
 <213> Homo sapiens

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| | ggtcccgcta | attacctggc | gggtgctgcc | caccctgcc | ctcgcgcacc | tagcgcgtgg | 120 |
| | cagcgggaag | gcggggcctg | ggggagcccc | acccctggag | actgcggctg | gggcctccct | 180 |
| | ctcctccgcc | cgcccgctg | ccactagctc | attgcgcctc | tcttgcagtc | tgattgggca | 240 |
| | ccggtcccca | ttccggtcc | agcctccaat | ccgaccccca | tttcggctgc | agcctcggac | 300 |
| | ctagctccgg | ccctcgggtct | atccggttgc | atcctccctc | cctgttccgg | atcttatctt | 360 |

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|------|
| gcgccagcgc | ctactccagg | atcccgtagc | cagacctcaa | gccatggctg | gtcccttctc | 420 |
| ccgtctgctg | tccgcccgcc | cgggactcag | gtccttggt | ttggccggag | cggggtctct | 480 |
| agccgctggg | tttctgctcc | gaccggaacc | tgtacgagct | gccagtgaac | gacggaggct | 540 |
| gtatcccccg | aggtaacagt | gcctgaggcg | cgggaggagg | cgggggcagg | aggtgatggg | 600 |
| aacgaaggtg | cgggtagaag | tgagaatccg | ggcaacagag | aagggtata | atcacgaagg | 660 |
| ccctggagct | ggagggctgt | gcagtctgca | gacctcagtg | gggtgggggt | gggggccaaa | 720 |
| accataaagc | aagaacattc | ctggggacct | gccaagacca | gctctggccc | tacgagttct | 780 |
| agctgcactg | gctgccccaa | tccctaattg | taaagccagg | aactatcctt | ttcgtctccc | 840 |
| tccatctcct | tccctcattt | cctcaattcc | tctccttagg | cttttcccct | cctccatccg | 900 |
| tagtggttg | tcatgggagg | aaagaactga | gcagatctga | agaaactgag | ctggccagcc | 960 |
| agaggcaact | agaactatta | ggaaagcata | gactctgaaa | gtccctaaag | agattaccaa | 1020 |
| ggtttaccct | ctttctaatt | cccctcctcc | cgcggagcaa | agccagacat | ggccaactgg | 1080 |
| acagctccca | ggtaactgca | ctaggtctag | gcgtctgtga | ccctccctcc | atggttactg | 1140 |
| ggtaacccct | cccagcgct | gagtaccag | acctccgaaa | gcacaacaac | tgcattggcca | 1200 |
| gtcacctgac | cccagcagtc | tatgcacggc | tctgcgacaa | gaccacaccc | actggttgga | 1260 |
| cgctagatca | gtgtatccag | actggcgctg | acaaccctgg | ccacccttc | atcaagactg | 1320 |
| tgggcatggt | ggctggagat | gaggagacct | atgaggtagg | gggtccccag | agtctccctg | 1380 |
| atgatccaat | tcatcttccc | agtaatccca | gctcctttcc | cttaaagacc | tctcactttc | 1440 |
| ccccaaagact | ctgagcccc | catacttaag | ttttctgaac | cagtgaatc | aatgcacaat | 1500 |
| tgaagtctgg | ggagggatcc | cctctcctta | accatctctc | cctcttaact | ccccttaggt | 1560 |
| atttgctgac | ctgtttgacc | ctgtgatcca | agagcgacac | aatggatatg | acccccggac | 1620 |
| aatgaagcac | accacggatc | tagatgccag | taaagtgagt | tcaaatatcc | cacttctgat | 1680 |
| ttgcattgcc | tgtgtacaac | actctgtatc | tccaaccctt | tcaccttatt | tcctgactca | 1740 |
| tggtcattat | actgctgagc | ttttaatctt | aatgtaagga | aagaatcata | tcttaagggg | 1800 |
| cagcatatat | ggagatggaa | ggatagataa | gaatgaccat | gaccaaggt | gggtggtttg | 1860 |
| gggacggggtc | tgcaatgccc | ccttcaattc | cagtgccttc | ccaaagggcc | tcttcttcca | 1920 |
| atgcatgcag | gaagaatgca | cacagagtcc | tctaatgcct | aaggaagggtc | tctcctttcc | 1980 |
| caggggcccct | cagttcccac | cgtgtttctg | tgacttacat | tcatttccct | tatctcccag | 2040 |
| atccgttctg | gctactttga | tgagaggat | gtattgtcct | ctagagtcag | aactggccga | 2100 |
| agcatccgag | gactcagctc | gcctccagct | tgcactcgag | cagagcgacg | agaggtggaa | 2160 |
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| aatgcttttt | ttccctctat | ctctcccaat | tcttgccctg | cctcttgatc | actgtccctc | 2580 |
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| aaaaccaaaag | agtagcataa | atagattatg | taattttacca | accaaccag | gacatgtctt | 2820 |
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| atcttaggaa | gtgaacaagg | cttttgacag | agagtgcaaa | gaaggaataa | atgagatggc | 3000 |

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| gggtagggaa | gtacctttaa | attatatgcc | tcagtttctc | catctgtaaa | attgggataa | 3540 |
| tgagattttc | tacatttttag | gttgttgtgg | ggattaagtg | aaatacaggt | aaagtacttg | 3600 |
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| agtaacgccc | tggatctgtc | cccgacagc | tgctgaaaga | gccaggtctg | ggatcccagc | 6480 |
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| tagaccttct | ctaactactc | ccaaagtgcc | ctatcataga | ccttcccca | tatgtctcta | 6600 |
| gccccttatt | taaacaccct | caggcccca | ccttaagaat | tgcagggcag | tcttccatcc | 6660 |
| agtccaccca | tggatatagaa | accaaacc | cttgaccag | cagtggccca | gctccccacc | 6720 |
| tgctatgggt | ccaatttcag | tgaagatctc | aggcccccag | ttactgattg | ggccaaaccc | 6780 |
| accaggcagt | acaagtaggt | gggccagaa | ctccagttgt | tcctcagagc | actgcagatg | 6840 |
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<210> 1796
 <211> 1479
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| tatcacaagg | agcaggcggc | ccagctgcgg | aacctggtgc | agtgtggtga | ctttcctcat | | 120 |
| ctgttagtgt | acggaccatc | aggtgctgga | aaaaagacaa | gaattatgtg | tattttacgt | | 180 |
| gaactttatg | gtgttgaggt | ggaaaaattg | agaattgaac | atcagaccat | cacaactcca | | 240 |
| tctaaaaaaa | aaattgaaat | tagcaccatt | gcaagtaact | accaccttga | agttaatcct | | 300 |
| agtgatgctg | gaaatagtga | ccgagtagtc | attcaggaga | tggtgaaaac | agtggcacia | | 360 |
| tcacaacaac | ttgaaacaaa | ctctcaaagg | gatttttaaag | tggtattatt | gacagaagtt | | 420 |
| gacaaactca | ccaaagatgc | tcagcatgcc | ttgcgaagaa | ccatggaaaa | atatatgtct | | 480 |
| acctgcagat | tgatcttggt | ctgcaattct | acatctaaag | tgatcccacc | tattcgtagt | | 540 |
| aggtgcttgg | cggttcgtgt | gcctgctccc | agcattgaag | atatttgcca | cgtgttatct | | 600 |
| actgtgtgta | agaaggaagg | tctgaattct | ccttcacaa | tggtcatag | acttgcagag | | 660 |
| aagtcttgta | gaaatctcag | aaaagccctg | cttatgtgtg | aagcctgcag | agtgcacaa | | 720 |
| tatcctttta | ctgcagatca | agaaatccct | gagacagatt | gggaggtgta | tctgagggag | | 780 |
| actgcaaattg | ctattgtcag | tcagcaaact | ccacaaaggc | tccttgaagt | tcgtggaagg | | 840 |
| ctgtatgagc | ttctaactca | ttgtattcct | cctgagataa | taatgaagg | ccttctctca | | 900 |
| gaactgttac | ataattgtga | tggacaactg | aaaggggagg | tggcaciaat | ggcagcttac | | 960 |
| tatgagcatc | gtctacagct | gggtagcaaa | gccatttatc | acttgggaagc | gtttgtggcc | | 1020 |
| aaattcatgg | cactttataa | gaagttcatg | gaggatggat | tgggaaggcat | gatgttctga | | 1080 |
| cttctgtcag | ttattcttgc | aaagatttct | cagtatcagt | atttacatac | agcttatatt | | 1140 |

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| aaaagagctg | tgggttaaatt | aactgaactt | aatcatgtcg | tatttggggtt | tttttggttaa | 1200 |
| taactttctct | gtgaactatt | aatcatcctc | tgagttaaatt | aattgctcct | atactattga | 1260 |
| agtatgtagt | tttgtacata | acttagagac | tttagagtct | aagaaaatga | tcttaattta | 1320 |
| ctttaagcat | tggttattca | agtattcatt | gttgatcctc | ctattctctt | cgttctaatac | 1380 |
| tctcacctgc | taaaggagat | ttacacatta | gaaagcaaag | attattttca | tttatccaga | 1440 |
| tgaccatttt | ctgccacagg | taacatgatt | gtttgacgg | | | 1479 |

<210> 1797
 <211> 1924
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | ggtgcagcca | tgtatgagct | ggtgagagtg | ggccacagcg | aattgggttg | agagattatt | 180 |
| | cgattggagg | gtgacatggc | tactattcag | gtgtatgaag | aaacttgtgg | tgtgtctggt | 240 |
| | ggagatcctg | tacttcgcac | tggtaaacc | ctctctgtag | acgttgggtcc | tggcattatg | 300 |
| | ggagccattt | ttgatggtat | tcaaagacct | ttgtcggata | tcagcagtca | gacccaaagc | 360 |
| | atctacatcc | ccagaggagt | aaacgtgtct | gctcttagca | gagatatcaa | atgggacttt | 420 |
| | acaccttgca | aaaacctacg | ggttggtagt | catatcactg | gcggagacat | ttatggaatt | 480 |
| | gtcagtgaga | actcgttat | caaacacaaa | atcatgttac | ccccacgaaa | cagaggaact | 540 |
| | gtaacttaca | ttgctccacc | tgggaattat | gatacctctg | atgttgtctt | ggagcttgaa | 600 |
| | tttgaagggtg | taaaggagaa | gttcaccatg | gtgcaagtat | ggcctgcacg | tcaagttcga | 660 |
| | cctgtcactg | agaagctgcc | agccaatcat | cctctgttga | ctggccagag | agtccttgat | 720 |
| | gccctttttc | cgtgtgtcca | gggaggaact | actgctatcc | ctggagcctt | tggctgtgga | 780 |
| | aagacagtga | tatcacagtc | tctatccaag | tattctaaca | gtgatgtaat | catctatgta | 840 |
| | ggatgtggtg | aaagaggaaa | tgagatgtct | gaagtcctcc | gggacttccc | agagctcaca | 900 |
| | atggagggtg | atggtaagg | agagtcaatt | atgaagagga | cagctttggt | agccaatacc | 960 |
| | tccaatatgc | ctggttgctgc | tagagaagcc | tctatttata | ctggaatcac | actgtcagag | 1020 |
| | tacttccgtg | acatgggcta | tcatgtcagt | atgatggctg | actctacctc | tagatgggct | 1080 |
| | gaggccctta | gagaaatctc | tggctcgttta | gctgaaatgc | ctgcagatag | tggatatcca | 1140 |
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| | aagtatatgc | gtgccttgga | tgaatactat | gacaaacact | tcacagagtt | cgttcctctg | 1440 |
| | aggacgaaag | ctaaggaaat | tctgcaggaa | gaagaagacc | tggcagaaat | tgtacagctt | 1500 |
| | gtgggaaagg | cttcttttggc | agaaacagat | aaaatcactc | tggaggtagc | aaaacttatac | 1560 |
| | aaagatgatt | tcctacaaca | aaatggatat | actccttatg | acaggttctg | cccatctctac | 1620 |
| | aagacagtag | ggatgctgtc | caacatgatt | gcatttttatg | atatggctcg | tagagctggt | 1680 |
| | gaaaccactg | cccagagtga | caataaaatc | acatggtcca | ttattcgtga | gcacatggga | 1740 |
| | gacatcctct | ataaaactttc | ctccatgaaa | ttcaaggatc | cactgaaaga | tggtagggca | 1800 |
| | aagatcaaaa | gcgactatgc | acaacttctt | gaagacatgc | agaatgcatt | ccgtagcctt | 1860 |
| | gaagattaga | agccttgaag | attacaactg | tgatttcctt | ttcctcagca | agctcctccg | 1920 |
| | gaat | | | | | | 1924 |

<210> 1798
 <211> 2309

<212> DNA
<213> Homo sapiens

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<223> n=a,t,g or c

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 gaaacacctt gggttttgtaa tcaagactgg atctaccagt gacttgctga ataacttcgg 180
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<210> 1799
<211> 1778
<212> DNA
<213> Homo sapiens

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gctttccaag tatggagtaa tgttaccccc ttgaaattca gcaagattaa cacaggcatg 480
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taaaattaag tatatatatt ttggctcaaa taaaattg 1778

<210> 1800
<211> 1092
<212> DNA
<213> Homo sapiens

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| tcttttgaaa | ttacagatgt | taaaccccta | aagggagacc | atctatccag | ggcaatagga | 540 |
| agaatcgctg | gcaaaggagg | aaaaaccaa | ttcaccatag | agaatgtgac | acggacaagg | 600 |
| atagtttttg | ctgatgtgaa | agttcacatc | cttggtcctt | tccaaaatat | caagatggca | 660 |
| agaactgcc | tttgcaacct | aatcttgga | aatcctcctt | ccaaggttta | tggcaatatt | 720 |
| cgagctgtgg | ctagcagatc | agcagatcga | ttctgatttc | aagtcagaga | ctttttatct | 780 |
| tgccttttga | ctctgggtgaa | aaatacttta | cagtggtcgg | tcacaagaaa | ccatctgaac | 840 |
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| tgttatctta | cacattaggt | ataatttatc | atttatctga | aatcacatgt | agcagattgc | 1020 |
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| cctccatatt | cc | | | | | 1092 |

<210> 1801
 <211> 13500
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

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| | gggtgctcct | cccttgaatt | cagtccagga | ggaagtctct | gccccttct | gccaggcca | 960 |
| | agccctcgt | cctgtgtgga | cgccactccc | tcttgagct | ggtgacagct | gcttacagct | 1020 |
| | tagctgtctt | ccccaccaag | tcctctgaga | aggtggcaac | cagttgtgtc | ccctgtaggc | 1080 |
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| | aaccattccc | tgaccgggt | ggggctagt | agtttcttga | gtaaactacc | cacgcaccat | 1260 |
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| | ctcaaactcc | tgggctcaag | caattctctc | acctcagcct | cccaagtagc | tgggactaca | 1380 |
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| | | | | | | |
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| acttcttggg | cccagaagca | agtgcctttg | acgctgcaca | caaagacttt | ctgaaattaa | 1680 |
| tttagaaaag | ctgtatgcc | ggtgtggtgg | cccacgcctt | taatcccagc | gctttggaag | 1740 |
| gctgaggtgc | gttgatcact | tgagggttagg | agtttgagac | caccctggtc | aacgtggtga | 1800 |
| aaccccatct | ctactgaaaa | aaaaaaccaa | aaattatctg | ggcatggtgg | cagcctcctg | 1860 |
| taatcccagc | tactcgggag | gttgaggcag | gagaatctct | tgaacccgga | aggcaggggt | 1920 |
| tgcagtgagc | tgagatcgct | ccactgcact | ctaacctagg | caacagagcg | agactccacc | 1980 |
| ccaaaaagaa | agaaagaaaa | actctgaact | ctgggaacaa | ctctgggatg | aggttacttt | 2040 |
| ggaatgcagt | cgcaggttcc | ctctacatgt | agcctttgct | tctgccttcc | ccactacatc | 2100 |
| ttggagaagg | ttactcctcc | cacacttcc | gggaccacct | gagtaccatt | cctggacctc | 2160 |
| ttcccatag | agaattctga | cttccaaccc | tctttgtagg | gatattatac | cctgcctgct | 2220 |
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| gcacctttga | gccttggccc | acactgagge | ttaggcctct | ctgcctggga | tgggctccca | 13200 |
| ccctcccttg | aggatggcct | ggattcacgc | cctcttgttt | ccttttgggc | tcaaagccct | 13260 |
| tcctacctct | ggtgatgggt | tccacaggaa | caacagcatc | tttcaccaag | atgggtggca | 13320 |
| ccaaccttgc | tgggacttgg | atcccagggg | cttatctctt | caagtgtgga | gagggcaggg | 13380 |
| tccacgcctc | tgtcttagct | tatgaaatta | actaattgaa | aattcactgg | ttggtggacg | 13440 |
| cacatttctc | tttcacctgg | gtttccctgg | gtctcatgga | cagctccaac | ttgatttggg | 13500 |

<210> 1802
 <211> 2029
 <212> DNA
 <213> Homo sapiens

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|------------|------------|------------|------------|------------|------------|-------------|------|
| <400> 1802 | gaattcgggc | ccgtcggctt | tcttcaaccc | tctcttccc | gagcgcccc | aatccacgag | 60 |
| | tggcagccgc | gggactgtcg | cgtcggcgcc | cgacgcggag | tcagcagggg | cgaaaagcgg | 120 |
| | tagatcatgg | caaccataga | agaaattgca | catcaaatta | ttgaacaaca | gatgggagag | 180 |
| | attgttacag | agcagcaaac | tgggcagaaa | atccagattg | tgacagcact | tgatcataat | 240 |
| | acccaaggca | agcagttcat | tctgacaaat | cacgacggct | ctactccaag | caaagtcatt | 300 |
| | ctggccaggc | aagattccac | tccgggaaaa | gttttcctta | caactccaga | tgcagcaggt | 360 |
| | gtcaaccagt | tattttttac | cactcctgat | ctgtctgcac | aacacctgca | gctcctaaca | 420 |
| | gataattctc | cagaccaagg | accaaataag | gtttttgatc | tttgcgtagt | atgtggagac | 480 |
| | aaagcatcag | gacgtcatta | tggagcagta | acttgtgaag | gctgcaaagg | attttttaaa | 540 |
| | agaagcatcc | gaaaaaattt | agtatatatt | tgtcgaggat | caaaggattg | tattattaat | 600 |
| | aagcaccacc | gaaaccgctg | tcaatactgc | aggttacaga | gatgtattgc | gttttggaatg | 660 |
| | aagcaagact | ctgtccaatg | tgaagaaaaa | cccattgaag | tatcacgaga | aaaatcttcc | 720 |
| | aactgtgccg | cttcaacaga | aaaaatctat | atccgaaagg | accttcgtag | cccattaact | 780 |
| | gcaactccaa | cttttgtaac | agatagtga | agtacaagg | caacaggact | gttagattca | 840 |
| | ggaatgttca | tgaatattca | tccatctgga | gtaaaaactg | agtcagctgt | gctgatgaca | 900 |
| | tcagataagg | ctgaatcatg | tcagggagat | ttaagtacat | tggccaatgt | ggttacatca | 960 |
| | ttagcgaatc | ttggaaaaac | taaagatctt | tctcaaaata | gtaatgaaat | gtctatgatt | 1020 |
| | gaaagcttaa | gcaatgatga | tacctctttg | tgtgaatttc | aagaaatgca | gaccaacggt | 1080 |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| gatgtttcaa | gggcatttga | cactcttgca | aaagcattga | atcctggaga | gagcacagcc | 1140 |
| tgccagagct | cagtagcggg | catggaagga | agtgtacacc | taatcactgg | agattcaagc | 1200 |
| ataaattaca | ccgaaaaaga | ggggccactt | ctcagcgatt | cacatgtagc | tttcaggctc | 1260 |
| accatgcctt | ctcctatgcc | tgagtacctg | aatgtgcact | acattgggga | gtctgcctcc | 1320 |
| agactgctgt | tcttatcaat | gcactgggca | ctttcgattc | cttctttcca | ggctctaggg | 1380 |
| caagaaaaca | gcatatcact | ggtgaaagct | tactggaatg | aactttttac | tcttggtcct | 1440 |
| gcccagtgt | ggcaagtgat | gaatgtagca | actatattag | caacatttgt | caattgtcct | 1500 |
| cacaatagtc | ttcaacaaga | tgccaaggta | attgcagccc | tcattcattt | cacaagacga | 1560 |
| gcaatcactg | atttataaat | gcttaactat | agaatggctt | atgactaccc | aaaacagtgc | 1620 |
| cccatcaaca | aatggggaaa | attgcctttt | gagctcagga | ataatttata | aattggggac | 1680 |
| taccttttag | ttcttttagca | tattctattt | cttattgttt | tatataattt | ttaaatcatt | 1740 |
| tgcttcctcc | ttatgtttta | cagcagaggg | gtaatcacct | taaaatgtca | tcaaaaatag | 1800 |
| atctactaga | aggcagcatc | acattcccat | cttacttatg | gactcctacc | cctgggtcat | 1860 |
| gtcttatatg | cctgtaatgg | ttataaaagc | taccttcagg | aaagctatgg | ttgactaatt | 1920 |
| actaatggat | gggtttttaa | catgtccctc | tacaataaat | taaaatcttt | caatgtttga | 1980 |
| atataatgtg | gaggtgttta | cctgagggcc | tctctatctc | cccgaattc | | 2029 |

<210> 1803
 <211> 794
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|-----|
| <400> 1803 | | | | | | |
| gcctgtaaca | gaggttatgg | tgatctgggt | ggatcccaca | gatacctctt | gcaggagata | 60 |
| tttacaagaa | gttccctgaa | tctctttcca | ttgtgatttt | gcattcctta | gcttatatcc | 120 |
| tttatatttt | atgttttcat | ttgtaaagaa | aactaacctg | ttttctcctt | ttctttctct | 180 |
| tccttctttt | tgcaggaggc | attgaaatth | tcagcagaga | ccttccaagg | acatattgca | 240 |
| ggattctgta | atagtgaaca | tatggaaagt | attagaaata | tttattgtct | gtaaatactg | 300 |
| taaatgcatt | ggaataaaaac | tgtctccccc | attgctctat | gaaactgcac | attgggtcatt | 360 |
| gtgaatattt | ttttttttgc | caaggcta | ccaattatta | ttatcacatt | taccataatt | 420 |
| tattttgtcc | attgatgtat | ttattttgta | aatgtatctt | gggtgctgctg | aatttctata | 480 |
| ttttttgtaa | cataatgcac | tttagatata | catatcaagt | atgttgataa | atgacacaat | 540 |
| gaagtgtctc | tattttgtgg | ttgattttta | tgaatgccta | aatataatta | tccaaattga | 600 |
| ttttcctttg | tgcattgtaa | aataacagta | ttttaaatth | gtaaagaatg | tctaataaaa | 660 |
| tataatctaa | ttacatcatg | attcagagag | tgaattctat | cctttaagat | ttttagtaga | 720 |
| aggaacatga | tatgtttttt | taaaaagcga | tttgaataca | atcttaaaca | cagtatgttt | 780 |
| atgttggtac | attc | | | | | 794 |

<210> 1804
 <211> 2060
 <212> DNA
 <213> Homo sapiens

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|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1804 | | | | | | |
| tgttcccagc | actcaagcct | tgccaccgcc | gagccgggct | tcctgggtgt | ttcaggcaag | 60 |
| gaagtctagg | tccttggggg | gtgaccccca | aggaaaaggc | agcctccctg | cgcacccggt | 120 |
| tgcccggagc | cctctccagg | gccggctggg | ctgggggttg | ccctggccag | caggggcccg | 180 |
| ggggcgatgc | cacccgggtgc | cgactgaggc | caccgcacca | tggcccgtct | gctgacctgg | 240 |
| cgctgctgcc | cctgggtgct | gacggaggat | gagaaggccg | ccgcccgggt | ggaccaggag | 300 |
| atcaacagga | tcctcttgga | gcagaagaag | caggaccgcg | gggagctgaa | gctgctgctt | 360 |
| ttgggcccag | gcgagagcgg | gaagagcacc | ttcatcaagc | agatgcggat | catccacggc | 420 |

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|
| gccggctact | cggaggagga | gcgcaagggc | ttccggcccc | tggtctacca | gaacatcttc | 480 |
| gtgtccatgc | gggccatgat | cgaggccatg | gagcggctgc | agattccatt | cagcaggccc | 540 |
| gagagcaagc | accacgctag | cctggctcatg | agccaggacc | cctataaagt | gaccacgttt | 600 |
| gagaagcgct | acgctgcggc | catgcagtgg | ctgtggaggg | atgccggcat | ccgggcctgc | 660 |
| tatgagcgtc | ggcgggaatt | ccacctgctc | gattcagccg | tgtactacct | gtcccacctg | 720 |
| gagcgcacat | ccgaggaggg | ctacgtcccc | acagctcagg | acgtgctccg | cagccgcacg | 780 |
| cccaccactg | gcatcaacga | gtactgcttc | tccgtgcaga | aaaccaacct | gcggatcggt | 840 |
| gacgtcgggg | gccagaagtc | agagcgtaag | aaatggatcc | attgtttcga | gaacgtgatc | 900 |
| gccctcatct | acctggcctc | actgagtga | tacgaccagt | gcctggagga | gaacaaccag | 960 |
| gagaaccgca | tgaaggagag | cctcgcatgt | tttgggacta | tcctggaact | acctgggttc | 1020 |
| aaaagcacat | ccgtcatcct | ctttctcaac | aaaaccgaca | tcctggagga | gaaaatcccc | 1080 |
| acctcccacc | tggttaccta | tttccccagt | ttccagggcc | ctaagcagga | tgctgaggca | 1140 |
| gccaagaggt | tcacccctga | catgtacacg | aggatgtaca | ccgggtgcgt | ggacggcccc | 1200 |
| gagggcagca | agaagggcgc | acgatcccga | cgccttttca | gccactacac | atgtgccaca | 1260 |
| gacacacaga | acatccgcaa | ggtcttcaag | gacgtgcggg | actcgggtgt | cgcccgtctc | 1320 |
| ctggacgaga | tcaacctgct | gtgaccacag | ccccacctgg | ggcaggcggc | accggcgggc | 1380 |
| gggtgggagg | tgggagtggc | tgcagggacc | ctagtgtcct | ggtctatctc | tccagcctcg | 1440 |
| gcccacacgc | aagggaagtc | ggggacggcc | cgctgctggc | cgctctcttc | tctgcctctc | 1500 |
| accaggacag | ccgcccccca | gggtactcct | gcccttgctt | gactcagttt | ccctcctttg | 1560 |
| aaagggaagg | agcaaaacgg | ccatttgagg | tgccagggtg | gatgaaaagg | tgaagaaatc | 1620 |
| aggggattga | gacttgggtg | ggtgggcac | tctcaggagc | cccatctccg | ggcgtgtcac | 1680 |
| ctcctgggca | gggttctggg | accctctgtg | ggtgacgcac | accctgggat | ggggctagta | 1740 |
| gagccttcag | ggccttcggg | gcggtggactc | tggcgcactc | tagtggacag | gagaaggaac | 1800 |
| gccttccagg | aacctgtgga | ctaggggtgc | agggacttcc | ctttgcaagg | ggtaacagac | 1860 |
| cgctggaaaa | cactgtcact | ttcagagctc | ggtgggtcac | agcgtgtcct | gccccgggtt | 1920 |
| gcggacgaga | gaaatcgcg | cccacaagca | tcccccatcc | cttgagggtc | gggggctggg | 1980 |
| catgctgcat | cttaaccttt | tgtatttatt | ccctcacctt | ctgcagggtc | ccgtgcgggc | 2040 |
| tgaaattaaa | gatttcttag | | | | | 2060 |

<210> 1805
 <211> 8930
 <212> DNA
 <213> Homo sapiens

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| <400> 1805 | gaattccgga | aagaaagaac | atcgtttcag | gaataaaaat | gcacagtagt | agttatagtt | 60 |
| | accgtagcag | tgattctgtg | tttagtaaca | ctaccagcac | tcgaaccagt | cttgattcaa | 120 |
| | atgaaaatct | tctcttggtt | cattgtgggtc | caacactgat | caactcttgc | attagcttcg | 180 |
| | gcagtgaatc | ctttgatgga | cacaggttag | aaatgttgca | acagattgcc | aacagagttc | 240 |
| | agagggacag | tgtcatctgt | gaagacaaac | tgattcttgc | tggaaatgct | cttcagtctg | 300 |
| | attctaaaag | attagaatca | ggagtgcagt | ttcagaatga | agcagaaatt | gctgggtata | 360 |
| | tacttgaatg | tgagaacctt | ttacgccagc | atgtaattga | tgtacagatt | cttattgatg | 420 |
| | gaaaatacta | ccaggcagat | caattgggtac | agagggttgc | aaaactgcgt | gacgaaatta | 480 |
| | tggccttaag | gaacgaatgt | tcttctgtgt | acagcaaagg | acgcatactg | acaacagaac | 540 |
| | agacaaagct | catgatatca | ggaatcactc | aaagttaaaa | ctcaggattt | gcacagacct | 600 |
| | tacaccctag | tctgacctca | gggctgaccc | agagttaaac | accttcccta | acctcttcta | 660 |
| | gtatgacttc | tggcctgtca | tcagggatga | cttcccgcct | gactccatct | gtcactccag | 720 |
| | cttatacacc | tgggtttcca | tcaggattag | ttccaaattt | cagttcagga | gtagagccaa | 780 |

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|------------|-------------|-------------|------------|-------------|-------------|------|
| attcattgca | aactttgaag | ttgatgcaga | tccgaaaacc | ccttctaaag | tcttctttgc | 840 |
| tggatcaaaa | tttaacagaa | gaagaaatca | atatgaaatt | tgttcaggat | cttttgaatt | 900 |
| gggttgatga | gatgcaggta | caactggacc | gcactgagtg | gggctcagat | ttgccaagtg | 960 |
| ttgaaagcca | tttagaaaat | cataaaaatg | ttcatagagc | tattgaagaa | tttgaatcta | 1020 |
| gtctcaaaga | agctaaaatc | agtgagattc | aaatgacagc | acctcttaaa | ctgacttatg | 1080 |
| cagaaaagtt | gcacagatta | gagagtcagt | atgcaaaact | cttgaataca | tccaggaatc | 1140 |
| aagaacggca | ccttgatata | ctccataatt | ttgtaagtcg | tgcgactaat | gaacttattt | 1200 |
| ggttgaatga | aaaagaagag | gaggaagttg | cttatgactg | gagtgagaga | aacaccaaca | 1260 |
| tagctaggaa | aaaagattat | catgctgaat | taatgagaga | acttgatcaa | aaggaagaaa | 1320 |
| atattaaatc | agttcaggag | atagcagagc | agctacttct | agaaaatcat | ccagcccggg | 1380 |
| taactattga | ggcctacaga | gcggaatgc | agacgcagtg | gagctggatc | ttacagctct | 1440 |
| gccagtgtgt | ggagcagcac | ataaaggaga | acacagcgta | tttcgagttt | ttcaatgatg | 1500 |
| ccaaagaagc | tactgattac | ttaaggaatc | taaaagatgc | cattcagcgg | aagtacagct | 1560 |
| gtgatagatc | aagcagcatt | cacaagctag | aagaccttgt | tcaggaatca | atggaagaga | 1620 |
| aagaagaact | tctgcagtac | aaaagcacta | tagcaaacct | aatgggaaaa | gcaaaaacaa | 1680 |
| taattcaact | gaagccaagg | aattctgact | gtccactcaa | aacttctatt | ccgatcaaa | 1740 |
| ctatctgtga | ctacagacaa | attgagataa | ccatttaca | agacgatgaa | tgtgttttgg | 1800 |
| caaataactc | tcatcgtgct | aaatggaagg | tcattagtcc | tactgggaat | gaggctatgg | 1860 |
| tcccatctgt | gtgcttcacc | gttcctccac | caaacaaaga | agcgggtggac | cttgccaaca | 1920 |
| gaattgagca | acagtatcag | aatgtcctga | ctctttggca | tgagtctcac | ataaacatga | 1980 |
| agagtgtagt | atcctggcat | tatctcatca | atgaaattga | tagaattcga | gctagcaatg | 2040 |
| tggcttcaat | aaagacaatg | ctacctgggtg | aacatcagca | agttctaagt | aatctacaat | 2100 |
| ctcgttttga | agattttctg | gaagatagcc | aggaatccca | agtcttttca | ggctcagata | 2160 |
| taacacaact | ggaaaaggag | gttaatgtat | gtaagcagta | ttatcaagaa | cttcttaaat | 2220 |
| ctgcagaaag | agaggagcaa | gaggaatcag | tttataatct | ctacatctct | gaagttcgaa | 2280 |
| acattagact | tccggttagag | aactgtgaag | atcggctgat | tagacagatt | cgaactcccc | 2340 |
| tggaaagaga | tgatttgcac | gaaagtgtgt | tcagaatcac | agaacaggag | aaactaaaga | 2400 |
| aagagctgga | acgacttaaa | gatgatttgg | gaacaatcac | aaataagtgt | gaggagtttt | 2460 |
| tcagtcaagc | agcagcctct | tcatcagtc | ctaccctacg | atcagagctt | aatgtgggtcc | 2520 |
| ttcagaacat | gaaccaagtc | tattctatgt | cttccactta | catagataag | ttgaaaactg | 2580 |
| ttaacttggg | gttaaaaaac | actcaagctg | cagaagccct | cgtaaaactc | tatgaaacta | 2640 |
| aactgtgtga | agaagaagca | gttatagctg | acaagaataa | tattgagaat | ctaataagta | 2700 |
| ctttaagca | atggagatct | gaagtagatg | aaaagagaca | ggtattccat | gccttagagg | 2760 |
| atgagttgca | gaaagctaaa | gccatcagtg | atgaaatggt | taaaacgtat | aaagaacggg | 2820 |
| accttgattt | tgactggcac | aaagaaaaag | cagatcaatt | agttgaaagg | tggcaaaatg | 2880 |
| ttcatgtgca | gattgacaac | aggttacggg | acttagaggg | cattggcaaa | tactgaagt | 2940 |
| actacagaga | cacttaccat | cctttagatg | attggatcca | gcaggttgaa | actactcaga | 3000 |
| gaaagattca | ggaaaatcag | cctgaaaata | gtaaaacctt | agccacacag | ttgaatcaac | 3060 |
| agaagatgct | gggtgccgaa | atagaaatga | aacagagcaa | aatggacgag | tgtcaaaaat | 3120 |
| atgcagaaca | gtactcagct | acagtgaagg | actatgaatt | acaacaatg | acctaccggg | 3180 |
| ccatggtaga | ttcacaacaa | aaatctccag | tgaaacgccg | aagaatgcag | agttcagcag | 3240 |
| atctcattat | tcaagagttc | atggacctaa | ggactcgata | tactgccttg | gtcactctca | 3300 |
| tgacacaata | tattaaattt | gctgggtgatt | cattgaagag | gctggaagag | gaggagatta | 3360 |
| aaaggtgtaa | ggagacttct | gaacatgggg | catattcaga | tctgcttcag | cgtcagaagg | 3420 |

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|-------------|-------------|------------|--------------|-------------|------------|------|
| caacagtgct | tgagaatagc | aaacttacag | gaaagataag | tgagttggaa | agaatggtag | 3480 |
| ctgaactaaa | gaaacaaaag | tcccgagtag | aggaagaact | tccgaaggtc | agggaggctg | 3540 |
| cagaaaatga | attgagaaag | cagcagagaa | atgtagaaga | tatctctctg | cagaagataa | 3600 |
| gggctgaaag | tgaagccaag | cagtaccgca | gggaacttga | aaccattgtg | agagagaagg | 3660 |
| aagccgctga | aagagaactg | gagcgggtga | ggcagctcac | catagaggcc | gaggctaaaa | 3720 |
| gagctgccgt | ggaagagaac | ctcctgaatt | ttcgcaatca | gttggaggaa | aacaccttta | 3780 |
| ccagacgaac | actggaagat | catcttaaaa | gaaaagattt | aagtctcaat | gatttggagc | 3840 |
| aacaaaaaaa | taaattaatg | gaagaattaa | gaagaaagag | agacaatgag | gaagaactct | 3900 |
| tgaagctgat | aaagcagatg | gaaaaagacc | ttgcatttca | gaaacaggta | gcagagaaac | 3960 |
| agttgaaaga | aaagcagaaa | attgaattgg | aagcaagaag | aaaaataact | gaaattcagt | 4020 |
| atacatgtag | agaaaatgca | ttgccagtgt | gtccgatcac | acaggctaca | tcatgcaggg | 4080 |
| cagtaacggg | tctccagcaa | gaacatgaca | agcagaaagc | agaagaactc | aaacagcagg | 4140 |
| tagatgaact | aacagctgcc | aatagaaaag | ctgaacaaga | catgagagag | ctgacatatg | 4200 |
| aacttaatgc | cctccagctt | gaaaaaacgt | catctgagga | aaaggctcgt | ttgctaaaag | 4260 |
| ataaactaga | tgaacaaaat | aatacactca | gatgccttaa | gttggagctg | gaaaggaagg | 4320 |
| atcaggcgga | gaaaggggat | tctcaacaac | tcagagagct | tggtaggcaa | ttgaatcaaa | 4380 |
| ccacaggtaa | agctgaagaa | gccatgcaag | aagctagtga | tctcaagaaa | ataaagcgca | 4440 |
| attatcagtt | agaattagaa | tctcttaatc | atgaaaaagg | gaaactacaa | agagaagtag | 4500 |
| acagaatcac | aagggcacat | gctgtagctg | agaagaatat | tcagcattta | aattcacaaa | 4560 |
| ttcattcttt | tcgagatgag | aaagaattag | aaagactaca | aatctgccag | agaaaatcag | 4620 |
| atcatctaaa | agaacaattt | gagaaaagcc | atgagcagtt | gcttcaaaat | atcaaagctg | 4680 |
| aaaaagaaaa | taatgataaa | atccaaaggc | tcaatgaaga | attggagaaa | agtaatgagt | 4740 |
| gtgcagagat | gctaaaacaa | aaagtagagg | agcttactag | gcagaataat | gaaaccaaat | 4800 |
| taatgatgca | gagaattcag | gcagaatcag | agaatatagt | tttagagaaa | caaactatcc | 4860 |
| agcaaagatg | tgaagcactg | aaaattcagg | cagatggttt | taaagatcag | ctacgcagca | 4920 |
| caaatgaaca | cttgcataaa | cagacaaaaa | cagagcagga | ttttcaaaac | aaaattaaat | 4980 |
| gcctagaaga | agacctggcg | aaaagtcaaa | atlttggttaag | tgaattttaag | caaaagtgtg | 5040 |
| accaacagaa | cattatcatc | cagaatacca | agaaagaagt | tagaaatctg | aatgcggaac | 5100 |
| tgaatgcttc | caaagaagag | aagcgacgcg | gggagcagaa | agttcagcta | caacaagctc | 5160 |
| aggtgcaaga | gttaaataac | aggttgaaaa | aagtacaaga | cgaattacac | ttaaagacca | 5220 |
| tagaggagca | gatgaccac | agaaagatgg | ttctgtttca | ggaagaatct | ggtaaattca | 5280 |
| aacaatcagc | agaggagttt | cggaagaaga | tggaaaaaatt | aatggagtcc | aaagtcatca | 5340 |
| ctgaaaatga | tatttcaggc | attaggcttg | actttgtgtc | tcttcaacaa | gaaaactcta | 5400 |
| gagcccaaga | aaatgctaag | ctttgtgaaa | caaacattaa | agaacttgaa | agacagcttc | 5460 |
| aacagtatcg | tgaacaaaatg | cagcaagggc | agcacatgga | agcaaatcat | taccaaaaat | 5520 |
| gtcagaaaact | tgaggatgag | ctgatagccc | agaagcgtga | ggttgaaaac | ctgaagcaaa | 5580 |
| aaatggacca | acagatcaaa | gagcatgaac | atcaattagt | tttgctccag | tgtgaaattc | 5640 |
| aaaaaaagag | cacagccaaa | gactgtacct | tcaaaccaga | ttttgagatg | acagtgaagg | 5700 |
| agtgccagca | ctctggagag | ctgtcctcta | gaaacactgg | acaccttcac | ccaacacca | 5760 |
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| gggttggtga | acagataccc | aaagaagtcc | aattccagcc | accaggggct | ccactcgaga | 5880 |
| aagagaaaag | ccagcagtgt | tactctgagt | acttttctca | gacaagcacc | gagttacaga | 5940 |
| taacttttga | tgagacaaac | cccattacaa | gactgtctga | aattgagaag | ataagagacc | 6000 |
| aagccctgaa | caattctaga | ccacctgtta | ggtatcaaga | taacgcatgt | gaaatggaac | 6060 |

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| tggtgaaggt | tttgacaccc | ttagagatag | ctaagaacaa | gcagtatgat | atgcatacag | 6120 |
| aagtcacaac | attaaaacaa | gaaaagaacc | cagttcccg | tgctgaagaa | tggtatgcttg | 6180 |
| aaggggtgcag | agcatctggt | ggactcaaga | aaggggattt | ccttaagaag | ggcttagaac | 6240 |
| cagagacctt | ccagaacttt | gatgggtgatc | atgcatgttc | agtcagggat | gatgaattta | 6300 |
| aattccaagg | gcttaggcac | actgtgactg | ccaggcagtt | ggtggaagct | aagcttcttg | 6360 |
| acatgagaac | aattgagcag | ctgcgactcg | gtcttaagac | tgttgaagaa | gttcagaaaa | 6420 |
| ctcttaacaa | gtttctgacg | aaagccacct | caattgcagg | gctttaccta | gaatctacaa | 6480 |
| aagaaaagat | ttcatttgcc | tcagcggccg | agagaatcat | aatagacaaa | atggtggcctt | 6540 |
| tggcattttt | agaagctcag | gctgcaacag | gttttataat | tgatcccatt | tcaggtcaga | 6600 |
| catattctgt | tgaagatgca | gttcttaaag | gagttgttga | ccccgaattc | agaattaggc | 6660 |
| ttcttgaggc | agagaaggca | gctgtgggat | attcttattc | ttctaagaca | ttgtcagtgt | 6720 |
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| ctctgcagca | gggggtgttg | aataatgcc | tcttacagtt | tttacatgag | ccatccagca | 6900 |
| acacaagagt | tttcccta | ccaataaca | agcaagctct | gtattactca | gaattactgc | 6960 |
| gaatgtgtgt | atattgatgta | gagtcacca | gctttctggt | tccatttggg | gagaggaaca | 7020 |
| tttccaatct | caatgtcaag | aaaacacata | gaatttctgt | agtagatact | aaaacaggat | 7080 |
| cagaattgac | cgtgtatgag | gctttccaga | gaaacctgat | tgagaaaact | atatactctg | 7140 |
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| cttctcatat | gctgactgat | actaaaacag | gattacactt | caatattaat | gaggctatag | 7260 |
| agcagggaac | aattgacaaa | gccttggtca | aaaagtatca | ggaaggcctc | atcacactta | 7320 |
| cagaacttgc | tgattctttg | ctgagccggt | tagtcccaa | gaaagatttg | cacagtcctg | 7380 |
| ttgcagggtta | ttggctgact | gctagtgggg | aaaggatctc | tgtactaaaa | gcctcccgtta | 7440 |
| gaaatttggg | tgatcggatt | actgccctcc | gatgccttga | agcccaagtc | agtacagggg | 7500 |
| gcataattga | tcctcttact | gtcaaaaagt | accgggtggc | cgaagctttg | catagaggcc | 7560 |
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| gccatcccat | cactaacaaa | atgatgtcag | tggtggaagc | tgtgaaggca | aatattataa | 7680 |
| ataaggaaat | gggaatccga | tgtttggaat | ttcagtactt | gacaggaggg | ttgatagagc | 7740 |
| cacaggttca | ctctcgggta | tcaatagaag | aggctctcca | agtaggtatt | atagatgtcc | 7800 |
| tcattgccac | aaaactcaa | gatcaaaagt | catatgtcag | aaatataata | tgccctcaga | 7860 |
| caaaaagaaa | gttgacatat | aaagaagcct | tagaaaaacc | tgattttgat | ttccacacag | 7920 |
| gacttaaact | gttagaagta | tctgagcccc | tgatgacagg | aatttctagc | ctctactatt | 7980 |
| cttccta | ggacatgttt | aaataactgt | gcaaggggtg | atgcaggctg | gttcatgcca | 8040 |
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| tatttcttga | gggctgcaaa | ttgctaagt | ctcaaaatag | agtaagtttt | aaattgaaaa | 8160 |
| ttacataaga | tttaatgccc | ttcaaatggt | ttcatttagc | cttgagaatg | gttttttgaa | 8220 |
| acttgccac | actaaaatgt | tttttttttt | acgtagaatg | tgggataaac | ttgatgaact | 8280 |
| ccaagttcac | agtgtcattt | cttcagaact | ccccttcatt | gaatagtgat | catttattaa | 8340 |
| atgataaatt | gcactcgctg | aaagagcacg | tcataagca | ccatggaatc | aaagagaaag | 8400 |
| atataaatc | gttcccacag | ccttcaagct | gcagtgtttt | agattgcttc | aaaaaatgaa | 8460 |
| aaagttttgc | ctttttctgt | atatagtgac | cttctttgca | tattaaaatg | tttaccacaa | 8520 |
| tgtcccattt | ctagttaagt | cttcgcactt | gaaagctaac | attatgaata | ttatgtgttg | 8580 |
| gaggagggga | aggattttct | tcattctgtg | tattttcctt | acatgtacag | tagacgttct | 8640 |
| ctattctatc | agccttctat | ggtacctttt | tgtcaggaca | attaggattg | taatgcta | 8700 |

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|------------|------------|------------|-------------|------------|------------|------|
| gcaaaggcag | caattcaaag | atcttctagt | gcctcatgaa | taaagttgag | atttaaaatt | 8760 |
| tgtaacattg | atggaacagc | tgggaggtta | gaccaatcat | taaggaatgt | atgccatacc | 8820 |
| tttctttgct | accataaaca | ttttggaggt | gcattctgcta | tgtgacatgg | taaatatggt | 8880 |
| taagtgaatg | aataaaatgt | tttagtaacc | tgtgtcggat | tccgcggaat | | 8930 |

<210> 1806
 <211> 1764
 <212> DNA
 <213> Homo sapiens

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| <400> 1806 | | | | | | |
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| ctccaggaag | aggaaggcaa | acgtgaccgt | ttttttgcag | gatccagatg | aagaaatggc | 120 |
| caaaatcgac | aggacggcga | gggaccagt | tgggagccag | ccttgggaca | ataatgcagt | 180 |
| ctgtgcagac | ccctgctccc | tgatcccccac | acctgacaaa | gaagatgatg | accgggttta | 240 |
| cccaaactca | acgtgcaagc | ctcggattat | tgcaccatcc | agaggctccc | cgctgcctgt | 300 |
| actgagctgg | gcaaataagag | aggaagtctg | gaaaatcatg | ttaaacaagg | aaaagacata | 360 |
| cttaagggat | cagcactttc | ttgagcaaca | ccctcttctg | cagccaaaaa | tgcgagcaat | 420 |
| tcttctggat | tgttaaatgg | aggtgtgtga | agtctataaa | cttcacaggg | agacctttta | 480 |
| cttggcacia | gatttctttg | accggtatat | ggcgacacaa | gaaaatgttg | taaaaactct | 540 |
| tttacagctt | attgggattt | catctttatt | tattgcagcc | aaacttgagg | aatctatcc | 600 |
| tccaaagtgt | caccagtttg | cgtatgtgac | agatggagct | tgttcaggag | atgaaattct | 660 |
| caccatggaa | ttaatgatta | tgaaggccct | taagtggcgt | ttaagtcccc | tgactattgt | 720 |
| gtcctggctg | aatgtatata | tgcaggttgc | atatctaaat | gacttacatg | aagtgtact | 780 |
| gccgcagtat | cccagcaaa | tctttatata | gattgcagag | ctgttgatc | tctgtgtcct | 840 |
| ggatgttgac | tgccttgaat | ttccttatgg | tatacttgct | gcttcggcct | tgtatcattt | 900 |
| ctcgtcatct | gaattgatgc | aaaagggtttc | agggatcag | tgggtgcgaca | tagagaactg | 960 |
| tgtcaagtgg | atggttccat | ttgccatggt | tataaggag | acggggagct | caaaactgaa | 1020 |
| gcacttcagg | ggcgtcgtg | atgaagatgc | acacaacata | cagaccaca | gagacagctt | 1080 |
| ggatttgctg | gacaaagccc | gagcaaagaa | agccatgttg | tctgaacaaa | atagggcttc | 1140 |
| tcctctcccc | agtgggctcc | tcaccccgcc | acagagcggg | aagaagcaga | gcagcgggccc | 1200 |
| ggaaatggcg | tgaccacccc | atccttctcc | accaaagaca | gttgccgccc | tgctccacgt | 1260 |
| tctcttctgt | ctgttgacgc | ggaggcgtgc | gtttgctttt | acagatatct | gaatggaaga | 1320 |
| gtgtttcttc | cacaacagaa | gtatttctgt | ggatggcatc | aaacagggca | aagtgttttt | 1380 |
| tattgaatgc | ttataggttt | tttttaata | agtgggtcaa | gtacaccagc | cacctccaga | 1440 |
| caccagtgcg | tgctcccgat | gctgctatgg | aagggtgctac | ttgacctaac | ggactccac | 1500 |
| aacaacaaaa | gcttgaagct | gtggaggcgc | acgggtggcgt | ggctctcctc | gcaggtgttc | 1560 |
| tgggctccgt | tgtaccaagt | ggagcaggtg | gttgccgggca | agcgttgtgc | agagcccata | 1620 |
| gccagctggg | cagggggctg | ccctctccac | attatcagtt | gacagtgtac | aatgcctttg | 1680 |
| atgaactgtt | ttgtaagtgc | tgctatatct | atccattttt | taataaagct | aatactgttt | 1740 |
| ctttagagca | cactggcggg | tcgt | | | | 1764 |

<210> 1807
 <211> 3336
 <212> DNA
 <213> Homo sapiens

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| <400> 1807 | | | | | | |
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| tttcaccagg | gaaatcagag | acaatgatgg | ggctcttccc | cagaactaca | ggggctctgg | 120 |
| ccatcttctg | ggtggtcata | ttggttcacg | gagaattgag | aatagagact | aaaggtcaat | 180 |

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|-------------|------------|-------------|-------------|------------|-------------|------|
| atgatgaaga | agagatgact | atgcaacaag | ctaaaagaag | gcaaaaacgt | gaatgggtga | 240 |
| aatttgccaa | accctgcaga | gaaggagaag | ataactcaaa | aagaaaccca | attgccaaaga | 300 |
| ttacttcaga | ttaccaagca | accagaaaa | tcacctaccg | aatctctgga | gtgggaatcg | 360 |
| atcagccgcc | ttttggaatc | tttgttggtg | acaaaaacac | tggagatatt | aacataacag | 420 |
| ctatagtcga | ccgggaggaa | actccaagct | tcctgatcac | atgtcgggct | ctaaatgccc | 480 |
| aaggactaga | tgtagagaaa | ccacttatac | taacgggttaa | aattttggat | attaatgata | 540 |
| atcctccagt | attttcacaa | caaattttca | tgggtgaaat | tgaagaaaat | agtgcctcaa | 600 |
| actcactggt | gatgatacta | aatgccacag | atgcagatga | accaaaccac | ttgaattcta | 660 |
| aaattgcctt | caaaattgtc | tctcaggaac | cagcaggcac | acccatgttc | ctcctaagca | 720 |
| gaaacactgg | ggaagtccgt | actttgacca | attctcttga | ccgagagcaa | gctagcagct | 780 |
| atcgtctggt | tgtgagtggg | gcagacaaag | atggagaagg | actatcaact | caatgtgaat | 840 |
| gtaatatata | agtgaagat | gtcaacgata | acttcccaat | gtttagagac | tctcagtatt | 900 |
| cagcacgtat | tgaagaaaat | attttaagtt | ctgaattact | tcgatttcaa | gtaacagatt | 960 |
| tggatgaaga | gtacacagat | aattggcttg | cagtatatatt | ctttacctct | gggaatgaag | 1020 |
| gaaattgggt | tgaaatacaa | actgaccta | gaactaatga | agggatcctg | aaagtgggtga | 1080 |
| aggctctaga | ttatgaacaa | ctacaaagcg | tgaaacttag | tattgctgtc | aaaaacaaag | 1140 |
| ctgaatttca | ccaatcagtt | atctctcgat | accgagttca | gtcaacccca | gtcacaattc | 1200 |
| aggtaataaa | tgtaagagaa | ggaattgcat | tccgtcctgc | ttccaagaca | tttactgtgc | 1260 |
| aaaaaggcat | aagtagcaaa | aaattgggtg | attatatcct | gggaacatat | caagccatcg | 1320 |
| atgaggacac | taacaaagct | gcctcaaagt | tcaaatatgt | catgggacgt | aacgatgggtg | 1380 |
| gatacctaata | gattgattca | aaaactgctg | aaatcaaatt | tgtcaaaaat | atgaaccgag | 1440 |
| atttactttt | catagttaac | aaaacaatca | cagctgaggt | tctggccata | gatgaatata | 1500 |
| cgggtaaaac | ttctacaggg | acgggtatatg | ttagagtacc | cgatttcaat | gacaattgtc | 1560 |
| caacagctgt | cctcgaaaaa | gatgcagttt | gcagttcttc | accttccgtg | gttgtctccg | 1620 |
| ctagaacact | gaataataga | tacactggcc | cctatacatt | tgcactggaa | gatcaacctg | 1680 |
| taaagttgcc | tgccgtatgg | agtatcacia | ccctcaatgc | tacctcgcc | ctcctcagag | 1740 |
| cccaggaaca | gatacctcct | ggagtatacc | acatctccct | ggtacttaca | gacagtcaga | 1800 |
| acaatcggtg | tgagatgcca | cgagcttga | cactggaagt | ctgtcagtg | gacaacaggg | 1860 |
| gcatctgtgg | aacttcttac | ccaaccacaa | gcctggggac | caggatggc | aggccgcact | 1920 |
| cagggaggct | ggggcctgcc | gccatcgcc | tgtgtctcct | tggtctcctg | ctgctgctgt | 1980 |
| tggccccctt | tctgtgttg | acctgtgact | gtggggcagg | ttctactggg | ggagtgcag | 2040 |
| gtggttttat | cccagttcct | gatggctcag | aaggaacaat | tcatcagtg | ggaattgaag | 2100 |
| gagcccatcc | tgaagacaag | gaaatcacia | atatttgtgt | gcctcctgta | acagccaatg | 2160 |
| gagccgattt | catggaaagt | tctgaagttt | gtacaaatac | gtatgccaga | ggcacagcgg | 2220 |
| tggaaggcac | ttcaggaatg | gaaatgacca | ctaagcttgg | agcagccact | gaatctggag | 2280 |
| gtgctgcagg | ctttgcaaca | gggacagtgt | caggagctgc | ttcaggattc | ggagcagcca | 2340 |
| ctggagttgg | catctgttcc | tcagggcagt | ctggaaccat | gagaacaagg | cattccactg | 2400 |
| gaggaaccaa | taaggactac | gctgatgggg | cgataagcat | gaattttctg | gactcctact | 2460 |
| tttctcagaa | agcatttgcc | tgtgctggag | aagacgatgg | ccaggaagca | aatgactgct | 2520 |
| tgttgatcta | tgataatgaa | ggcgcagatg | ccactgggtc | tctgtggggc | tccgtgggtt | 2580 |
| gttgacgttt | tattgctgat | gacctggatg | acagcttctt | ggactcactt | ggacccaaat | 2640 |
| ttaaaaaact | tgcagagata | agccttggtg | ttgatgggtga | aggcaaagaa | gttcagccac | 2700 |
| cctctaaaga | cagcggttat | gggattgaat | cctgtggcca | tcccatagaa | gtccagcaga | 2760 |
| caggatttgt | taagtgccag | actttgtcag | gaagtcaagg | agcttctgct | ttgtccgcct | 2820 |

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|------------|-------------|------------|-------------|------------|------------|------|
| ctgggtctgt | ccagccagct | gtttccatcc | ctgaccctct | gcagcatggg | aactatntag | 2880 |
| taacggagac | ttactcggct | tctgggtccc | tctgtcaacc | ttccactgca | ggctttgatc | 2940 |
| cacttctcac | acaaaatgtg | atagtgcag | aaaggggtgat | ctgtcccatt | tccagtgttc | 3000 |
| ctggcaacct | agctggccca | acgcagctac | gaggggtcaca | tactatgctc | tgtacagagg | 3060 |
| atccttgctc | cctgtctaata | tgaccagaat | gagctggaat | accacactga | ccaaatctgg | 3120 |
| atctttggac | taaagtattc | aaaatagcat | agcaaagctc | actgtattgg | gctaataatt | 3180 |
| tggcacttat | tagcttctct | cataaactga | tcacgattat | aaattaaatg | tttgggttca | 3240 |
| tacccccaaa | gcaatatgtt | gtcactccta | attctcaagt | actattcaaa | ttgtagtaaa | 3300 |
| tcttaaagtt | tttcaaaacc | ctaaaatcat | attcgc | | | 3336 |

<210> 1808
 <211> 865
 <212> DNA
 <213> Homo sapiens

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| <400> 1808 | | | | | | |
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| gtcccggccc | acccgcgccc | gcgatgctgg | cgctgcgctg | cggctcccgc | tggctcggcc | 120 |
| tgtctctcgt | cccgcgctcc | gtgccgctgc | gcctccccgc | ggcccgcgcc | tgcagcaagg | 180 |
| gctccggcga | cccgtcctct | tcctcctcct | ccgggaaccc | gctcgtgtac | ctggacgtgg | 240 |
| acgccaacgg | gaagccgctc | ggccgcgtgg | tgtctggagt | gaaggcagat | gtcgtcccaa | 300 |
| agacagctga | gaacttcaga | gccctgtgca | ctggtgagaa | gggcttcggc | tacaaaggct | 360 |
| ccaccttcca | cagggtgatc | ccttccttca | tgtgccaggc | gggcgacttc | accaaccaca | 420 |
| atggcacagg | cgggaagtcc | atctacggaa | gccgctttcc | tgacgagaa | tttactactga | 480 |
| agcacgtggg | gccaggtgtc | ctgtccatgg | ctaagtctgg | tcctaacacc | aacggctccc | 540 |
| agttcttcat | ctgcaccata | aagacagact | ggttggatgg | caagcatgtt | gtgttcgggtc | 600 |
| acgtcaaaga | gggcatggac | gtcgtgaaga | aaatagaatc | tttcggctct | aagagtggga | 660 |
| ggacatccaa | gaagattgtc | atcacagact | gtggccagtt | gagctaattc | gtggccaggg | 720 |
| tgtctggcatg | gtggcagctg | caaatgtcca | tgcaccaggg | tggccgcgtt | gggctgtcag | 780 |
| ccaaggtgcc | tgaaacgata | cgtgtgccca | ctccactgtc | acagtgtgcc | tgaggaaggc | 840 |
| tgctagggat | gttagacgga | attcc | | | | 865 |

<210> 1809
 <211> 2311
 <212> DNA
 <213> Homo sapiens

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| aagagttggg | gtttgctcag | gaagagattt | aagcatgctt | gcttaccag | actcagagaa | 120 |
| gtctccctgt | tctgtcctag | ctatgttctt | gtgttgtgtg | cattcgtctt | ttccagagca | 180 |
| aaccgcccag | agtagaagat | ggattggggc | acgctgcaga | cgatcctggg | gggtgtgaac | 240 |
| aaacactcca | ccagcattgg | aaagatctgg | ctcaccgtcc | tcttcatttt | tcgcattatg | 300 |
| atcctcgttg | tggctgcaaa | ggaggtgtgg | ggagatgagc | aggccgactt | tgtctgcaac | 360 |
| accctgcagc | caggctgcaa | gaacgtgtgc | tacgatcact | acttccccat | ctccacatc | 420 |
| cggctatggg | ccctgcagct | gatcttcgtg | tccagcccag | cgctcctagt | ggccatgcac | 480 |
| gtggcctacc | ggagacatga | gaagaagagg | aagttcatca | agggggagat | aaagagtga | 540 |
| tttaaggaca | tcgaggagat | caaaaccag | aaggtccgca | tcgaaggctc | cctgtgggtg | 600 |
| acctacacaa | gcagcatctt | cttccgggtc | atcttcgaag | ccgccttcat | gtacgtcttc | 660 |
| tatgtcatgt | acgacggctt | ctccatgcag | cggctgggtga | agtgcacgc | ctggccttgt | 720 |
| cccaacactg | tggactgctt | tgtgtcccgg | cccacggaga | agactgtctt | cacagtgttc | 780 |

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|------------|-------------|-------------|-------------|------------|-------------|------|
| atgattgcag | tgtctggaat | ttgcatcctg | ctgaatgtca | ctgaattgtg | ttatttgcta | 840 |
| attagatatt | gttctgggaa | gtcaaaaaag | ccagtttaac | gcattgcca | gttgtagat | 900 |
| taagaaatag | acagcatgag | agggatgagg | caaccctgtc | tcagctgtca | aggctcagtc | 960 |
| gccagcattt | cccaacacaa | agattctgac | cttaaattgca | accatttgaa | accctgtag | 1020 |
| gcctcaggtg | aaactccaga | tgccacaatg | agctctgtct | ccctaaagcc | tcaaaacaaa | 1080 |
| ggcctaattc | tatgcctgtc | ttaattttct | ttcacttaag | ttagttccac | tgagaccca | 1140 |
| ggctgttagg | ggttattggt | gtaagggtact | ttcatatttt | aaacagagga | tatcggcatt | 1200 |
| tgtttctttc | tctgaggaca | agagaaaaaa | gccagggtcc | acagaggaca | cagagaagggt | 1260 |
| ttgggtgtcc | tcctggggtt | ctttttgcca | actttcccca | cgtaaagggt | gaacattggt | 1320 |
| tctttcattt | gctttggaag | ttttaatctc | taacagtgtg | caaagttacc | agtgccttaa | 1380 |
| actctgttac | actttttgga | agtgaaaact | ttgtagtatg | ataggttatt | ttgatgtaaa | 1440 |
| gatgttctgg | ataccattat | atgttccccc | tgtttcagag | gctcagattg | taatatgtaa | 1500 |
| atggtatgtc | attcgtact | atgatttaat | ttgaaatatg | gtcttttggt | tatgaatact | 1560 |
| ttgcagcaca | gctgagagag | gctgtctgtt | gtattcattg | tggtcatagc | acctaacaac | 1620 |
| attgtagcct | caatcgagtg | agacagacta | gaagttccta | gttggttat | gatagcaa | 1680 |
| ggcctcatgt | caaataattag | atgtaatttt | gtgtaagaaa | tacagactgg | atgtaccacc | 1740 |
| aactactacc | tgtaatgaca | ggcctgtcca | acacatctcc | cttttccatg | ctgtggtagc | 1800 |
| cagcatcgga | aagaacgctg | atttaaagag | gtgagcttgg | gaattttatt | gacacagtac | 1860 |
| catttaattg | ggagacaaaa | atgggggcca | ggggaggagg | aagtttctgt | cgtaaaaaac | 1920 |
| gagtttgga | agactggact | ctaaattctg | ttgattaaag | atgagctttg | tctaccttca | 1980 |
| aaagtttggt | tggtttaccc | ccttcagcct | ccaatttttt | aagtgaaaat | ataactaata | 2040 |
| acatgtgaaa | agaatagaag | ctaagggtta | gataaatatt | gagcagatct | ataggaagat | 2100 |
| tgaacctgaa | tattgccatt | atgcttgaca | tggtttccaa | aaaatggtag | tccacatact | 2160 |
| tcagtgaggg | taagtatttt | cctgttgaca | agaatagcat | tgtaaaagca | ttttgtaata | 2220 |
| ataaagaata | gctttaatga | tatgcttgta | actaaaataa | ttttgtaatg | tatcaaatac | 2280 |
| atttaaaaca | ttaaaatata | atctctataa | t | | | 2311 |

<210> 1810
 <211> 1709
 <212> DNA
 <213> Homo sapiens

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| | caaagtcttc | aatatttggg | gaaaacatct | cctcatactt | gagagcacia | gaggaagaga | 120 |
| | gagaccctca | ctgctgggga | gtccctgcca | cactcagtc | cccaccacac | tgaatcgga | 180 |
| | ttccgagagg | gaagaggagg | cgcgagaatg | gaggtggagg | ccgtctgtgg | tggcgcgggc | 240 |
| | gaggtggagg | cccaggactc | tgaccctgcc | cctgccttca | gcaaggcccc | cggcagcgcc | 300 |
| | ggccactacg | aactgccgtg | ggttgaaaaa | tataggccag | taaagctgaa | tgaaattgtc | 360 |
| | gggaatgaag | acaccgtgag | caggctagag | gtctttgcaa | gggaaggaaa | tgtgccaac | 420 |
| | atcatcattg | cgggccctcc | aggaaccggc | aagaccacia | gcattctgtg | cttgggcccg | 480 |
| | gccctgctgg | gcccagcact | caaagatgcc | atgttggaac | tcaatgcttc | aaatgacagg | 540 |
| | ggcattgacg | ttgtgaggaa | taaaattaaa | atgtttgtct | aacaaaaagt | cactcttccc | 600 |
| | aaaggccgac | ataagatcat | cattctggat | gaagcagaca | gcatgaccga | cggagcccag | 660 |
| | caagccttga | ggagaacat | ggaaatctac | tctaaaacca | ctcgcttcgc | ccttgcttgt | 720 |
| | aatgcttcgg | ataagatcat | cgagcccatt | cagtcccgt | gtgcagtcct | ccggtacaca | 780 |
| | aagctgaccg | acgcccagat | cctcaccagg | ctgatgaatg | ttatcgagaa | ggagagggta | 840 |

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|
| ccctacactg | atgacggcct | agaagccatc | atcttcacgg | cccagggaga | catgaggcag | 900 |
| gcgctgaaca | acctgcagtc | caccttctca | ggatttggt | tcattaacag | tgagaacgtg | 960 |
| ttcaaggtct | gtgacgagcc | ccaccctactg | ctggtaaagg | agatgatcca | gcactgtgtg | 1020 |
| aatgccaaca | ttgacgaagc | ctacaagatt | cttgctcact | tgtggcatct | gggctactca | 1080 |
| ccagaagata | tcattggcaa | catctttcga | gtgtgtaaaa | ctttccaaat | ggcagaatac | 1140 |
| ctgaaactgg | agtttatcaa | ggaaattgga | tacactcaca | tgaaaatagc | ggaaggagtg | 1200 |
| aactctcttt | tgcagatggc | aggcctcctg | gcaaggctgt | gtcagaagac | aatggccccg | 1260 |
| gtggccagtt | agagcagaga | cttcactgac | tgacttacag | gtgccctatt | ctgaggtaca | 1320 |
| ggagccgcgg | ctttctgatg | ggggaaaatg | cgccttaggc | tgagccaaca | tgactgtccc | 1380 |
| ccaaactcca | gtggctggcc | aggcgcggta | gtcacgcctg | taatcccaac | actttgggag | 1440 |
| gccgaggcag | gtggatcacc | tgaggtcaga | agttcaagac | cagcctggcc | aacatgggga | 1500 |
| aaccctgtct | ttactaaaaa | tataaaaatt | agctgggtgt | ggtggcgggc | acctgtaatc | 1560 |
| ccagctactc | gggaggctgt | ggcaggcgaa | atcgcttgaa | cccaggagga | ggaggtggag | 1620 |
| gttgcagtga | gccaagatca | caccattgca | ctccagcctg | ggcgacagag | actccatctg | 1680 |
| gggaaaaaaa | ttaaataaat | aaactccccg | | | | 1709 |

<210> 1811
 <211> 890
 <212> DNA
 <213> Homo sapiens

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| | tgaactccaa | cgtggagaac | ctacccccgc | acatcatccg | cctggtgtac | aaggaggtga | 120 |
| | cgacactgac | cgcagaccca | cccgatggca | tcaaggctct | tcccaacgag | gaggacctca | 180 |
| | ccgacctcca | ggtcaccatc | gagggccctg | aggggacccc | atatgctgga | ggtctgttcc | 240 |
| | gcatgaaact | cctgctgggg | aaggacttcc | ctgcctcccc | acccaagggc | tacttctctga | 300 |
| | ccaagatctt | ccaccggaac | gtgggcgcca | atggcgagat | ctgcgtcaac | gtgctcaaga | 360 |
| | gggactggac | ggctgagctg | ggcatccgac | acgtactgct | gaccatcaag | tgcttctctga | 420 |
| | tccaccctaa | ccccgagtct | gcactcaacg | aggaggcggg | ccgcctgctc | ttggagaact | 480 |
| | acgaggagta | tgcggctcgg | gcccgtctgc | tcacagagat | ccacgggggc | gccggcgggc | 540 |
| | ccagcggcag | ggccgaagcc | ggtcggggccc | tggccagtgg | cactgaagct | tcctccaccg | 600 |
| | accctggggc | cccagggggc | ccgggagggg | ctgagggtcc | catggccaag | aagcatgctg | 660 |
| | gcgagcgcga | taagaagctg | gcggccaaga | aaaagacgga | caagaagcgg | gcgctgcggg | 720 |
| | cgctgcggcg | gctgtagtgg | gctctcttcc | tccttccacc | gtgaccccaa | cctctcctgt | 780 |
| | cccctccctc | caactctgtc | tctaagttat | ttaaattatg | gctgggggtcg | gggagggtac | 840 |
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<210> 1812
 <211> 7941
 <212> DNA
 <213> Homo sapiens

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| | caaaaaaac | atttccttcg | ctccccctcc | ctctccactc | tgagaagcag | aggagccgca | 120 |
| | cggcgagggg | ccgcagaccg | tctggaaatg | cgaatcctaa | agcgtttcct | cgcttgcat | 180 |
| | cagctcctct | gtgtttgccg | cctggattgg | gctaattggat | actacagaca | acagagaaaa | 240 |
| | cttggtgaag | agattggctg | gtcctataca | ggagcactga | atcaaaaaaa | ttggggaaag | 300 |
| | aaatatccaa | catgtaatag | cccaaaacaa | tctcctatca | atattgatga | agatcttaca | 360 |
| | caagtaaagt | tgaatcttaa | gaaacttaaa | tttcagggtt | gggataaaac | atcattggaa | 420 |

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
| aacacattca | ttcataacac | tgggaaaaca | gtggaaatta | atctcactaa | tgactaccgt | 480 |
| gtcagcggag | gagtttcaga | aatggtgttt | aaagcaagca | agataacttt | tactgggga | 540 |
| aaatgcaata | tgatcatctga | tggatcagag | catagtttag | aaggacaaaa | atttccactt | 600 |
| gagatgcaaa | tctactgctt | tgatgcggac | cgattttcaa | gttttgagga | agcagtcaaa | 660 |
| ggaaaaggga | agttaagagc | tttatccatt | ttgtttgagg | ttgggacaga | agaaaatttg | 720 |
| gatttcaaag | cgattattga | tggagtcgaa | agtgttagtc | gttttgggaa | gcaggctgct | 780 |
| ttagatccat | tcatactgtt | gaaccttctg | ccaaactcaa | ctgacaagta | ttacatttac | 840 |
| aatggctcat | tgacatctcc | tccctgcaca | gacacagttg | actggattgt | ttttaagat | 900 |
| acagtttagca | tctctgaaag | ccagttggct | gttttttgtg | aagttcttac | aatgcaacaa | 960 |
| tctggttatg | tcattgctgat | ggactactta | caaaacaatt | ttcgagagca | acagtacaag | 1020 |
| ttctctagac | aggtgttttc | ctcatacact | ggaaaggaag | agattcatga | agcagtttgt | 1080 |
| agttcagaac | cagaaaatgt | tcaggctgac | ccagagaatt | ataccagcct | tcttgttaca | 1140 |
| tgggaaagac | ctcgagtcgt | ttatgatacc | atgattgaga | agtttgcagt | tttgtaccag | 1200 |
| cagttggatg | gagaggacca | aaccaagcat | gaatttttga | cagatggcta | tcaagacttg | 1260 |
| ggtgctattc | tcaataattt | gctacccaat | atgagttatg | ttcttcagat | agtagccata | 1320 |
| tgcactaatg | gcttatatgg | aaaatacagc | gaccaactga | ttgtcgacat | gcctactgat | 1380 |
| aatcctgaac | ttgatctttt | ccctgaatta | attggaactg | aagaaataat | caaggaggag | 1440 |
| gaagagggaa | aagacattga | agaaggcgt | attgtgaatc | ctggtagaga | cagtgtctaca | 1500 |
| aaccaaataca | ggaaaaagga | accccagatt | tctaccacaa | cacactacaa | tcgcataggg | 1560 |
| acgaaatata | atgaagccaa | gactaaccga | tccccacaa | gaggaagtga | attctctgga | 1620 |
| aagggtgatg | ttcccaatac | atcttttaaat | tccacttccc | aaccagtcac | taaattagcc | 1680 |
| acagaaaaag | atatttctct | gacttctcag | actgtgactg | aactgccacc | tcacactgtg | 1740 |
| gaagggtactt | cagcctcttt | aaatgatggc | tctaaaactg | ttcttagatc | tccacatatg | 1800 |
| aacttgtcgg | ggactgcaga | atccttaaat | acagtttcta | taacagaata | tgaggaggag | 1860 |
| agtttattga | ccagtttcaa | gcttgatact | ggagctgaag | attcttcagg | ctccagtcac | 1920 |
| gcaacttctg | ctatcccatt | catctctgag | aacatatccc | aagggtatat | attttcctcc | 1980 |
| gaaaaccag | agacaataac | atatgatgtc | cttataccag | aatctgctag | aaatgcttcc | 2040 |
| gaagattcaa | cttcatcagg | ttcagaagaa | tactaaagg | atccttctat | ggagggaaat | 2100 |
| gtgtggtttc | ctagctctac | agacataaca | gcacagcccg | atgttggatc | aggcagagag | 2160 |
| agctttctcc | agactaatta | cactgagata | cgtgttgatg | aatctgagaa | gacaaccaag | 2220 |
| tccttttctg | caggcccagt | gatgtcacag | ggccctcag | ttacagatct | ggaaatgcc | 2280 |
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| tccagacaac | aggatttgg | ctccacggtc | aacgtgggat | actcgagac | aaccaaccg | 2400 |
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| acccctttgt | tgcttgacaa | tcagatcctc | aacactaccc | ctgctgcttc | aagtagtgat | 2520 |
| tcggccttgc | atgctacgcc | tgtatttccc | agtgtcgatg | tgtcatttga | atccatcctg | 2580 |
| tcttctctatg | atggtgcacc | tttgcctcca | tttctctctg | cttcttccag | tagtgaattg | 2640 |
| tttcgccatc | tgcatacagt | ttctcaaate | cttccacaag | ttacttcagc | taccgagagt | 2700 |
| gataaggtgc | ccttgcatgc | ttctctgcc | gtggctgggg | gtgatttgc | attagagccc | 2760 |
| agccttgctc | agtattctga | tgtgctgtcc | actactcatg | ctgcttcaga | gacgctggaa | 2820 |
| tttggttagtg | aatctggtgt | tctttataaa | acgcttatgt | tttctcaagt | tgaaccaccc | 2880 |
| agcagtgatg | ccatgatgca | tgcacgttct | tcagggcctg | aaccttctta | tgcttgtct | 2940 |
| gataatgagg | gtccccaaca | catcttcaact | gtttcttaca | gttctgcaat | acctgtgcat | 3000 |
| gattctgtgg | gtgtaactta | tcaggggttcc | ttatttagcg | gccctagcca | tataccaata | 3060 |

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| cctaagtctt | cgtaataaac | cccaactgca | tcattactgc | agcctactca | tgccctctct | 3120 |
| ggtgatgggg | aatggtctgg | agcctcttct | gatagtgaat | ttcttttacc | tgacacagat | 3180 |
| gggctgacag | cccttaacat | ttcttcacct | gtttctgtag | ctgaatttac | atatacaaca | 3240 |
| tctgtgtttg | gtgatgataa | taaggcgctt | tctaaaagtg | aaataatata | tggaaatgag | 3300 |
| actgaactgc | aaattccttc | tttcaatgag | atggtttacc | cttctgaaag | cacagtcag | 3360 |
| cccaacatgt | atgataatgt | aaataagttg | aatgcgtctt | tacaagaaac | ctctgtttcc | 3420 |
| atttctagca | ccaagggcat | gtttccaggg | tcccttgctc | ataccaccac | taaggttttt | 3480 |
| gatcatgaga | ttagtcaagt | tccagaaaat | aacttttcag | ttcaacctac | acatactgtc | 3540 |
| tctcaagcat | ctggtgacac | ttcgcttaaa | cctgtgctta | gtgcaaactc | agagccagca | 3600 |
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| agaatgatat | gggaacataa | tgtggaagtt | attgtcatga | taacaaacct | cgtggagaaa | 5640 |
| ggaaggagaa | aatgtgatca | gtactggcct | gccgatggga | gtgaggagta | cgggaacttt | 5700 |

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|-------------|-------------|-------------|------------|-------------|-------------|------|
| ctggtcactc | agaagagtgt | gcaagtgcct | gcctattata | ctgtgaggaa | ttttactcta | 5760 |
| agaaacacaa | aaataaaaaa | gggctcccag | aaaggaagac | ccagtggacg | tgtggtcaca | 5820 |
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| acctttgtga | gaaaggcagc | ctatgccaa | cgccatgcag | tggggcctgt | tgtcgtccac | 5940 |
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| attcaacacg | aaggaaactgt | caacatattt | ggcttcttaa | aacacatccg | ttcacaaaga | 6060 |
| aattatttgg | tacaaactga | ggagcaatat | gtcttcattc | atgatacact | ggttgaggcc | 6120 |
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| tcaaataatac | agcagagtga | ctattctgca | gccctaaagc | aatgcaacag | ggaaaagaat | 6300 |
| cgaacttctt | ctatcatccc | tgtggaaaga | tcaaggggtg | gcatttcac | cctgagtggga | 6360 |
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| gaagctacac | aggatgatta | tgtacttgaa | gtgaggcact | ttcagtgtcc | taaatggcca | 6720 |
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| gccaataggg | atgggcctat | gattgttcat | gatgagcatg | gaggagtgc | ggcaggaact | 6840 |
| ttctgtgctc | tgacaaccct | tatgcaccaa | ctagaaaaag | aaaattccgt | ggatgtttac | 6900 |
| caggtagcca | agatgatcaa | tctgatgagg | ccaggagtct | ttgctgacat | tgagcagtat | 6960 |
| cagtttctct | acaaagtgat | cctcagcctt | gtgagcacia | ggcaggaaga | gaatccatcc | 7020 |
| acctctctgg | acagtaattg | tgcagcattg | cctgatggaa | atatagctga | gagcttagag | 7080 |
| tcttttagttt | aacacagaaa | gggggtgggg | gactcacatc | tgagcattgt | tttctcttc | 7140 |
| ctaaaattag | gcaggaaaat | cagtctagtt | ctgttatctg | ttgatttccc | atcacctgac | 7200 |
| agtaactttc | atgacatagg | attctgccgc | caaatttata | tcattaacaa | tgtgtgcctt | 7260 |
| tttgcaagac | ttgtaattta | cttattatgt | ttgaactaaa | atgattgaat | tttacagtat | 7320 |
| ttctaagaat | ggaattgtgg | tatttttttc | tgtattgatt | ttaacagaaa | atttcaattt | 7380 |
| atagagggtta | ggaattccaa | actacagaaa | atgtttgttt | ttagtgtcaa | atttttagct | 7440 |
| gtattttag | caattatcag | gtttgctaga | aatataactt | ttaatacagt | agcctgtaaa | 7500 |
| taaaacactc | ttccatatga | tattcaacat | tttacaactg | cagtattcac | ctaaagtaga | 7560 |
| aataatctgt | tacttattgt | aaatactgcc | ctagtgtctc | catggaccaa | atttatattt | 7620 |
| ataattgtag | attttttatat | tttactactg | agtcaagttt | tctagtctctg | tgtaattgtt | 7680 |
| tagtttaattg | acgtagtcca | ttagctggtc | ttactctacc | agttttctga | cattgtattg | 7740 |
| tgttacctaa | gtcattaact | ttgtttcagc | atgtaatttt | aacttttgtg | gaaaatagaa | 7800 |
| ataccttcat | tttgaaagaa | gttttttatga | gaataacacc | ttaccaacaa | ttgttcaaat | 7860 |
| ggtttttatc | caaggaattg | caaaaataaa | tataaatatt | gccattaaaa | aaaaaaaaaa | 7920 |
| aaaaaaaaaa | aaaaaaaaaa | a | | | | 7941 |

<210> 1813
 <211> 2566
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| <400> 1813 | ggcacgagtt | gtgctcctcg | cttgccctgtt | ccttttccac | gcattttcca | ggataactgt | 60 |
| | gactccaggc | ccgcaatgga | tgccctgcaa | ctagcaaatt | cggcttttgc | cgttgatctg | 120 |
| | ttcaaacaac | tatgtgaaaa | ggagccactg | ggcaatgtcc | tcttctctcc | aatctgtctc | 180 |

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|------|
| tccacctctc | tgtcacttgc | tcaagtgggt | gctaaagggtg | acactgcaaa | tgaaattgga | 240 |
| caggttcttc | attttgaaaa | tgtcaaagat | ataccctttg | gatttcaaac | agtaacatcg | 300 |
| gatgtaaaca | aacttagttc | cttttactca | ctgaaactaa | tcaagcggct | ctacgtagac | 360 |
| aaatctctga | atctttctac | agagttcatc | agctctacga | agagacccta | tgcaaaggaa | 420 |
| ttggaaaactg | ttgacttcaa | agataaattg | gaagaaacga | aaggtcagat | caacaactca | 480 |
| attaaggatc | tcacagatgg | ccacttttag | aacatttttag | ctgacaacag | tgtgaacgac | 540 |
| cagaccaaaa | tccttgtggt | taatgctgcc | tactttgttg | gcaagtggat | gaagaaattt | 600 |
| cctgaatcag | aaacaaaaga | atgtcctttc | agactcaaca | agacagacac | caaaccagtg | 660 |
| cagatgatga | acatggaggc | cacgttctgt | atgggaaaca | ttgacagtat | caattgtaag | 720 |
| atcatagagc | ttccttttca | aaataagcat | ctcagcatgt | tcatactact | acccaaggat | 780 |
| gtggaggatg | agtccacagg | cttggagaag | attgaaaaac | aactcaactc | agagtcactg | 840 |
| tcacagtggg | ctaattccag | caccatggcc | aatgccaaag | tcaaactctc | cattccaaaa | 900 |
| tttaagggtg | aaaagatgat | tgatcccaag | gcttgtcttg | aaaatctagg | gctgaaacat | 960 |
| atcttcagt | aagacacatc | tgatttctct | ggaatgtcag | agaccaaggg | agtggcccta | 1020 |
| tcaaagtgtta | tccacaaagt | gtgcttagaa | ataactgaag | atggtgggga | ttccatagag | 1080 |
| gtgccaggag | cacggatcct | gcagcacaag | gatgaattga | atgctgacca | tccttttatt | 1140 |
| tacatcatca | ggcacaacaa | aactcgaaac | atcattttct | ttggcaaatt | ctgttctcct | 1200 |
| taagtggcat | agcccatggt | aagtctctcc | tgacttttct | gtggatgccg | atttctgtaa | 1260 |
| actctgcac | cagagattca | ttttctagat | acaataaatt | gctaattgtg | ctggatcagg | 1320 |
| aagccgccag | tacttgtcat | atgtagcctt | cacacagata | gacctttttt | tttttccaat | 1380 |
| tctatctttt | gtttcctttt | ttcccataag | acaatgacat | acgcttttaa | tgaaaaggaa | 1440 |
| tcacgttaga | ggaaaaatat | ttattcatta | tttgtcaaat | tgtccgggggt | agttggcaga | 1500 |
| aatacagtct | tccacaaaga | aaattcctat | aaggaagatt | tggaagctct | tcttcccagc | 1560 |
| actatgcttt | ccttcttttg | gatagagaat | gttccagaca | ttctcgcttc | cctgaaagac | 1620 |
| tgaagaaagt | gtagtgcacg | ggacccacga | aactgccctg | gctccagtga | aacttgggca | 1680 |
| catgctcagg | ctactatagg | tccagaagtc | cttatgttaa | gccctggcag | gcagggtgtt | 1740 |
| attaaaattc | tgaatttttg | ggattttcaa | aagataatat | tttacatata | ctgtatgtta | 1800 |
| tagaacttca | tggatcagat | ctggggcagc | aacctataaa | tcaacacctt | aatatgctgc | 1860 |
| aacaaaatgt | agaatattca | gacaaaatgg | atacataaag | actaagtagc | ccataagggg | 1920 |
| tcaaaatttg | ctgccaaatg | cgatgccac | caacttacia | aaacacttcg | ttcgagagc | 1980 |
| ttttcagatt | gtggaatggt | ggataaggaa | ttatagacct | ctagtagctg | aaatgcaaga | 2040 |
| ccccagagg | aagttcagat | cttaataata | attcactttc | atttttgata | gctgtcccat | 2100 |
| ctggtcatgt | ggttggcact | agactgggtg | caggggcttc | tagctgactc | gcacagggat | 2160 |
| tctcacaata | gccgatata | gaatttgtgt | tgaaggaaact | tgtctcttca | tctaatatga | 2220 |
| tagcgggaaa | aggagaggaa | actactgcct | ttagaaaata | taagtaaagt | gattaaagtg | 2280 |
| ctcacgttac | cttgacacat | agtttttcag | tctatgggtt | tagttacttt | agatggcaag | 2340 |
| catgtaactt | atattaatag | taatttgtaa | agttgggtgg | ataagctatc | cctgttgccg | 2400 |
| gttcatggat | tacttctcta | taaaaaatat | atattttacca | aaaaattttg | tgacattcct | 2460 |
| tctcccatct | cttccttgac | atgcattgta | aataggttct | tcttgttctg | agattcaata | 2520 |
| ttgaatttct | cctatgctat | tgacaataaa | atattattga | actacc | | 2566 |

<210> 1814
 <211> 1388
 <212> DNA
 <213> Homo sapiens
 <400> 1814

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
| gcggacttct | gccaagcacc | ggctcatgtg | aggctcgcgg | cacagcggtc | tctgggctcc | 60 |
| ccagaagcca | gcctttcgct | cccggacccg | gcagcccgag | caggagccgt | gggaccgggc | 120 |
| gccagcacc | tctgcggcgt | gtcatgggccc | cgcgcgcgcg | gagccgaaag | cccaggcccc | 180 |
| cgaggaggcg | cagccccgagc | ccgacccccga | cccccgcccc | ctcccggcgg | ggccccctct | 240 |
| taggcgcttc | ctcccatcaa | cacagtcggc | ggagacaagg | ttggctaaag | gagatccgaa | 300 |
| agcttcagaa | gagcacacac | ctcttgataa | ggaagctgcc | cttcagccgc | ctggcaagag | 360 |
| aaatatgtgt | taaattcact | cgtggtgtgg | acttcaattg | gcaagcccag | gccctattgg | 420 |
| ccctacaaga | ggcagcagaa | gcattttctag | ttcatctctt | tgaggacgcc | tatctcctca | 480 |
| ccttacatgc | aggccgagtt | actctcttcc | caaaggatgt | gcaactggcc | cggaggatcc | 540 |
| ggggccttga | ggaggggactc | ggctgagctc | ctgcacccag | tgtttctgtc | agtctttcct | 600 |
| gctcagccag | gggggatgat | accggggact | ctccagagcc | atgactagat | ccaatggatt | 660 |
| ctgcgatgct | gtctggactt | tgctgtctct | gaacagtatg | tgtgtgttgc | tttaaataatt | 720 |
| tttctttttt | ttgagaagga | gaagactgca | tgacttttct | ctgtaacaga | ggtaatatat | 780 |
| gagacaatca | acaccgttcc | aaaggcctga | aaataatttt | cagataaaga | gactccaagg | 840 |
| ttgacttttag | tttgtgagtt | actcatgtga | ctatttgagg | attttgaaaa | catcagattt | 900 |
| gctgtggtat | gggagaaaag | gttatgtact | tattatttta | gctctttctg | taatattttac | 960 |
| attttttacc | atatgtacat | ttgtactttt | attttacaca | taagggaaaa | aataagacca | 1020 |
| ctttgagcag | ttgcctggaa | ggctgggcat | ttccatcata | tagacctctg | cccttcagag | 1080 |
| tagcctcacc | attagtggca | gcacatgtga | actgagtgga | ctgtgcttgt | caacggatgt | 1140 |
| gtagcttttc | agaaacttaa | ttggggatga | atagaaaacc | tgtaagcttt | gatgttctgg | 1200 |
| ttacttctag | taaattcctg | tcaaaatcaa | ttcagaaatt | ctaacttgga | gaatttaaca | 1260 |
| ttttactctt | gtaaatcata | gaagatgtat | cataacagtt | cagaatttta | aagtacattt | 1320 |
| tccgatgctt | tatgggtatt | tttgtagttt | ctttgtagag | agataataaa | aatcaaaaata | 1380 |
| tttaatga | | | | | | 1388 |

<210> 1815
 <211> 1005
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-------------|-----|
| <400> 1815 | ngggtttacg | cagcncncca | agaggnttgn | accncgcgat | ccaagagggga | tttaagcagc | 60 |
| | ccagagctcc | agagaaaaag | agagcgagaa | agaaccacac | acagagacgg | cttaagcggt | 120 |
| | taccgaatt | aaatatatat | ttttaaaaaag | aactgttgag | ttttatcatt | ttcgttaagt | 180 |
| | gaccgtgcgc | agcgcgtgtaa | ctgcaggatg | gggaagcaga | atagcaaact | ggccccctgaa | 240 |
| | gtgatggagg | acctggtgaa | gagcacagag | tttaatgagc | atgaactcaa | gcagtgggtac | 300 |
| | aaaggatttc | tcaaggactg | tccaagtggg | aggctaaatc | tccaggaatt | tcagcagctc | 360 |
| | tatgtgaagt | tctttcctta | tggagacgcc | tccaagtttg | gccagcatgc | cttccgaacc | 420 |
| | ttcgacaaga | ttggggacgg | caccattgac | ttccgagagt | tcatctgcgc | tctgtccatc | 480 |
| | acctccaggg | gnagnnttga | gcagaagctg | aactgggcct | tcaatatgta | tgacctggat | 540 |
| | ggtgatggca | agatcaccn | nntggagatg | ctggagatca | tccaggctat | ctacaaaatg | 600 |
| | gtaggcactg | tgatcatgat | gaaaatgaat | gaggatggcc | tgacgcctga | gcagcgagta | 660 |
| | gacaagattt | tcagcaagat | ggatangaac | aaagatgacc | agattacact | gggtgaattc | 720 |
| | agagaagctg | caaagagcga | cccttccatt | gtattacttc | tccagtgcga | catccagaaa | 780 |
| | tgagctgatg | tcaatgctat | gggctncncc | caagtctcna | tgttccattc | agtctgcagc | 840 |

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| tattcacaca | cacacacaca | cacacacaca | cacacacaca | cacacacaca | cncaaattatt | 900 |
| gcttggmcta | cctataaatg | gacttgcttc | ttgtgtttga | aacactcgtg | tgcatgagaa | 960 |
| tgtcatttgc | taatgaattt | taaaagcata | caancaccng | ccaag | | 1005 |

<210> 1816
 <211> 3111
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| <400> 1816 | gcgccccggcg | ccaggggagc | cgccacagcc | atggattgca | aagatagacc | 60 |
| ggagtgcggg | ggttaagaagt | taataacaagc | ccgtctgccc | tttaagcgcc | tgaatcttgt | 120 |
| agcttttcca | aaagccgatg | acatgtcaga | cgatcagggt | acttctgtgc | aaagtaaaag | 180 |
| cccaaagggg | gaggcctctt | tggacacctt | ggaaaacaac | tgatcatgtg | gttctgacat | 240 |
| ccccgattta | ccgaaacttg | tcaacgggaa | gggtccctta | gataactttt | taagaaatag | 300 |
| agactttaga | agtattggcc | agagcacagt | catcattgat | ttgacagagg | actcgaatga | 360 |
| aatcgaaacc | agtcttgtgg | accacaataa | actaaattct | gaagcctctc | cctccaggga | 420 |
| gcagccagac | ggccagcgag | aagacactgg | ggatcagcag | gggttgttga | aggccattca | 480 |
| ggcaataaat | ttggcatttc | ctggagagac | cctttcagac | attccttgca | aaacagagga | 540 |
| gaacgacaag | ggctgtggag | gtgcagggag | gagaggcgac | tcccaggaat | gttcgccacg | 600 |
| ggaggggtgt | gagctgacga | gtggcccag | aatgtgcccc | agaaaggagc | aggacagttg | 660 |
| gagctgcccc | gggggcatcc | tggtcaaagg | gaaggtgcct | atggtggtct | tgcaggacat | 720 |
| gagtgaagct | agaccaccgc | aaatcaagtc | ccttccagcc | acaccccaag | gcaagaacat | 780 |
| cttggtctgt | tggaatcttt | ccccgaagaa | gactctgtac | tcagccattc | | 840 |
| gacccctgag | tctccctctt | ccaccagctc | gcccaggggg | ccgctgctc | ccccaaagca | 900 |
| gtccctgagc | tccccacctc | cacgcccctc | cgcagaataa | ctaagaaatt | | 960 |
| gcacagcagt | agaacaagct | cagactgcaa | agagatcagg | agcgtctggg | | 1020 |
| cgtcaaaggc | cagaaaggga | agaaaaggag | aagctgaaag | aggaggccaa | | 1080 |
| caagcagctc | gaggaagaa | ggaggaagag | aaggagctta | aggaaaagga | | 1140 |
| gcgggcccaag | aggatgagaa | ggagaaggcg | gagaagcagc | ggctcaagga | | 1200 |
| gaggcgggag | aggaagccct | ggaggctaaa | cttgaggaaa | aaaggaaaaa | | 1260 |
| ggagcggcgc | gagaagaaga | gaagcgcatt | aaagcagaga | aggccgaaat | | 1320 |
| ggaagaagag | acaggccccc | aagaccctgg | ccggctcctg | | | 1380 |
| cacgaggttc | aaattaaaga | gcacatggtc | ctggcccctc | ggcgtcggac | | 1440 |
| tgggaagttt | gcagtcagct | ggaccagctc | ctccagcagc | agagcggcga | | 1500 |
| cgctttccat | gagcccctg | aggtccggac | ccacgcacgt | | | 1560 |
| gttctccttc | tgaaagacc | tcaaaggccg | gtggtgagaa | | | 1620 |
| ttccaccggg | ggaagtttgg | caggatgaag | ctcctgcagt | tctgtgagaa | | 1680 |
| cgacggtgtt | gtacctggaa | taagaagacg | gcactcatcc | gcgcgcgaga | | 1740 |
| ccaccggcct | ctatgaggtg | gacagtgatg | aggagtggga | | | 1800 |
| cccctggggc | cagtgagggg | gatgatgatg | acgacatggg | | | 1860 |
| agaagaggag | tggtacctgt | ctgaggacga | | | | 1920 |
| agaggatgaa | gtccgccaga | aactgaaggc | | | | 1980 |
| aggtgtgaca | cgcgctcctg | aacctgtgaa | | | | 2040 |
| caaggagtgg | gatgacctga | aggtactgca | | | | 2100 |
| gatcggtctg | gaggagcaga | cgcccaaggc | | | | 2160 |
| gcagttcgca | ctgtctgccg | tcctgcacgg | | | | 2220 |
| ctccaagcgg | ggagttccag | gagcactgcc | gccggggact | | | 2280 |
| caatgtgaac | | | | | | |

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|------------|------------|------------|------------|------------|------------|------|
| gctcagcaac | cacaccggca | gcccgcggac | gccctccacc | acctacctgc | acacccccac | 2340 |
| ccccagcgag | gatgccgcca | tcccctctaa | gtcccggctc | aagcggtca | tttccgagaa | 2400 |
| ctcagtgtat | gagaagcggc | ctgacttcag | gatgtgctgg | tacgtgcacc | cgcaggtgct | 2460 |
| acagagcttc | cagcaggagc | acctgcccgt | gccgtgccag | tggagctatg | tgacatcggc | 2520 |
| gccctcggcc | cccaaagagg | acagtggcag | cgtccccctc | acggggccca | gccagggcac | 2580 |
| tcccatctcg | ctgaagagga | agtcagcggg | cagcatgtgc | atcacccaat | tcatgaagaa | 2640 |
| gcgcaggcac | gacggccaga | ttggtgctga | agacatggac | ggcttccagg | cagacacgga | 2700 |
| ggaggaggaa | gaggaggagg | gcgactgtat | gatcgtggat | gtcccggatg | ctgtggaggt | 2760 |
| ccaagccccg | tgtggagccg | cttccggagc | tgggggtggt | gtgggggtgg | acaccggcaa | 2820 |
| ggccaccctg | accgcgagcc | cactgggtgc | atcctgagag | caggggtgac | gtatgtagaa | 2880 |
| cgcttagggc | gtcctcccca | cagagcagat | acttgaaccg | actcaattcc | tgtgtaaaga | 2940 |
| gcactttgtc | ctgcttcacg | gacctcccca | aagtgtgcag | agttctatat | aggatgctgg | 3000 |
| attagttcct | ttgatatttg | taaaaattcc | ccaagagcc | gcatatgaat | ctgcccttta | 3060 |
| ataaagcatt | attgagattg | ctggcctatt | ggggaagctg | cgggcacagg | a | 3111 |

<210> 1817
 <211> 1167
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|-------------|------------|------------|------------|-------------|------|
| <400> 1817 | atgggggacg | ctcccagccc | tgaagagaaa | ctgcacctta | tcacccggaa | cctgcaggag | 60 |
| | gttctggggg | aagagaagct | gaaggagata | ctgaaggagc | gggaacttaa | aatttactgg | 120 |
| | ggaacggcaa | ccacgggcaa | accacatgtg | gcttactttg | tgcccatgtc | aaagattgca | 180 |
| | gacttcttaa | aggcagggtg | tgaggtaaca | attctgtttg | cggacctcca | cgcataacctg | 240 |
| | gataacatga | aagccccatg | ggaacttcta | gaactccgag | tcagttacta | tgagaatgtg | 300 |
| | atcaaagcaa | tgctggagag | cattggtgtg | cccttggaga | agctcaagtt | catcaaaggc | 360 |
| | actgattacc | agctcagcaa | agagtacaca | ctagatgtgt | acagactctc | ctccgtggtc | 420 |
| | acacagcacg | attccaagaa | ggctggagct | gaggtggtaa | agcaggtgga | gcaccctttg | 480 |
| | ctgagtggcc | tcttataccc | cggactgcag | gctttggatg | aagagtattt | aaaagtagat | 540 |
| | gccaattttg | gaggcattga | tcagagaaa | attttcacct | ttgcagagaa | gtacctccct | 600 |
| | gcacttggtc | attcaaaaacg | ggctcatctg | atgaatccta | tggttccagg | attaacaggc | 660 |
| | agcaaaatga | gctcttcaga | agaggagtcc | aagattgatc | tccttgatcg | gaaggaggat | 720 |
| | gtgaagaaaa | aactgaagaa | ggccttctgt | gagccaggaa | atgtggagaa | caatgggggtt | 780 |
| | ctgtccttca | tcaagcatgt | cctttttccc | cttaagtccg | agtttgtgat | cctacgagat | 840 |
| | gagaaatggg | gtggaaacaa | aacctacaca | gcttacgtgg | acctggaaaa | ggactttgct | 900 |
| | gctgaggttg | tacatcctgg | agacctgaag | aattctgttg | aagtcgcact | gaacaagttg | 960 |
| | ctggatccaa | tccgggaaaa | gtttaatacc | cctgccctga | aaaaactggc | cagcgctgcc | 1020 |
| | taccagatc | cctcaaagca | gaagccaatg | gccaaaggcc | tgccaagaat | tcagaaccag | 1080 |
| | aggaggtcat | cccatcccg | ctggatatcc | gtgtggggaa | aatcatcact | gtggagaagc | 1140 |
| | accagatgc | agacagcctg | tatgtag | | | | 1167 |

<210> 1818
 <211> 2442
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| <400> 1818 | gcgggattcc | gggccggggc | ggcctgggct | gcaatcaatg | cggctttgtc | tgggacgccc | 60 |
| | acatcccaga | ggccattccc | gggtcggcaa | atcggagcgc | ggcggggcgc | gcgggggtga | 120 |
| | gataagcggc | catgtgatcc | cacctgggct | ggaaggggag | ggcgccagg | tgaggcggcg | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| gccggtgggg | cgcgggcggc | cacgcggggc | tcttcagca | tggctgtcag | caggaaggac | 240 |
| tggtccgcgc | tgtccagcct | tgcccggcag | aggactctgg | aggatgagga | ggaacaggag | 300 |
| cgcgagcgca | ggcggcggca | ccgcaacctg | agctccacca | cggacgatga | ggctcccagg | 360 |
| ctcagccaga | atggagaccg | gcaggcctct | gcttctgaga | gactaccgag | cgtggaagaa | 420 |
| gcagaggtgc | ccaagccact | gccccagcc | tccaaagatg | aggacgagga | catccagagc | 480 |
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| catcggaagg | ggctccctca | tgtcatctac | tgccgcctgt | ggcgatggcc | agacctgcac | 360 |
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| gatagacttg | ggatggggag | ggagggagtt | ttgtctgtct | ccctccccctc | tcagaacata | 1920 |
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| ctgatgcata | cggctatatt | ggtttatgta | gtcagttgca | ttcattaaat | caactttatc | 2280 |
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<210> 1820
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| actagcccc | gtcggccact | gattctcaaa | agacggaggc | tgccccttcc | tgttcaaaat | 180 |
| gcccgaagt | aaacatcaga | ggaggaacct | aagagatccc | ctgcccaca | ggagtcta | 240 |

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| aagattatta | accaccccac | catgcccac | acgcaagtag | tggccatccc | caacaatgct | 360 |
| aatattcaca | gcattcatcac | agcactgact | gccaagggaa | aagagagtgg | cagtagtggg | 420 |
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| gccatgatac | aattcgccat | caacagcact | gagaggaagc | gcatgacttt | gaaagacatc | 900 |
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<210> 1825
 <211> 5994
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| ccatatatgg | acgttcccaa | aatcctgtcc | agcccatcgg | cccacaaacc | ccaaaagcat | 900 |
| gtgacagtaa | gctaaccctt | gatgtataaa | ctacgattcg | gggagaagt | atgttcttta | 960 |
| aagacagatt | ctacatgcgc | acaaatccct | tctacccgga | agttgagctc | aatttcattt | 1020 |
| ctgttttctg | gccacaactg | ccaaatgggc | ttgaagctgc | ttacgaattt | gccgacagag | 1080 |
| atgaagtccg | gtttttcaaa | gggaataagt | actgggctgt | tcagggacag | aatgtgctac | 1140 |
| acggataccc | caaggacatc | tacagctcct | ttggcttccc | tagaactgtg | aagcatatcg | 1200 |
| atgctgctct | ttctgaggaa | aacactggaa | aaacctactt | ctttgttgct | aacaaatact | 1260 |
| ggaggtatga | tgaatataaa | cgatctatgg | atccagggtta | tcccaaaatg | atagcacatg | 1320 |
| actttcctgg | aattggccac | aaagttgatg | cagttttcat | gaaagatgga | tttttctatt | 1380 |
| tctttcatgg | aacaagacaa | tacaaatttg | atcctaaaac | gaagagaatt | ttgactctcc | 1440 |
| agaaagctaa | tagctgggtc | aactgcagga | aaaattgaac | attactaatt | tgaatggaaa | 1500 |
| acacatggtg | tgagtccaaa | gaaggtgttt | tctgaagaa | ctgtctattt | tctcagtcac | 1560 |
| ttttaacctc | tagagtcaact | gatacacaga | atataatctt | atttatacct | cagtttgcat | 1620 |
| atttttttac | tatttagaat | gtagcccttt | ttgtactgat | ataatttagt | tccacaaatg | 1680 |
| gtgggtacaa | aaagtcaagt | ttgtggctta | tggattcata | taggccagag | ttgcaaagat | 1740 |
| cttttccaga | gtatgcaact | ctgacgttga | tcccagagag | cagcttcagt | gacaaacata | 1800 |
| tcctttcaag | acagaaagag | acaggagaca | tgagtctttg | ccggaggaaa | agcagctcaa | 1860 |
| gaacacatgt | gcagtcactg | gtgtcaccct | ggataggcaa | gggataactc | ttctaacaca | 1920 |
| aaataagtgt | tttatgtttg | gaataaagtc | aaccttgttt | ctactgtttt | | 1970 |

<210> 1827
 <211> 2500
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| caccaaagcc | aatgggaagg | gccgggagcg | cgcggcgcg | gagatttaaa | ggctgctgga | 180 |
| gtgaggggctc | gcccgtgcac | cctgtcccag | ccgtcctgtc | ctggctgctc | gctctgcttc | 240 |
| gctgcgcctc | cactatgctc | tccctccgtg | tcccgtcgc | gcccacacg | gacccgcagc | 300 |
| agctgcagct | ctcgccgctg | aaggggctca | gcttggtcga | caaggagaac | acgccgccgg | 360 |
| ccctgagcgg | gacccgcgtc | ctggccagca | agaccgcgag | gaggatcttc | caggagccca | 420 |
| cggagccgaa | aactaaagca | gctgcccccg | gcgtggagga | tgagccgctg | ctgagagaaa | 480 |
| acccccgcgg | ctttgtcatc | ttccccatcg | agtaccatga | tatctggcag | atgtataaga | 540 |
| aggcagagggc | ttcctttttg | accgccgagg | aggttgacct | ctccaaggac | attcagcact | 600 |
| gggaatccct | gaaacccgag | gagagatatt | ttatatccca | tgttctggct | ttctttgcag | 660 |
| caagcgaatg | catagtaaat | gaaaacttgg | tggagcgatt | tagccaagaa | gttcagatta | 720 |
| cagaagcccc | ctgtttctat | ggcttccaaa | ttgccatgga | aaacatacat | tctgaaatgt | 780 |
| atagtcttct | tattgacact | tacataaaag | atcccaaaga | aagggaattt | ctcttcaatg | 840 |
| ccattgaaac | gatgccttgt | gtcaagaaga | aggcagactg | ggccttgccg | tggattgggg | 900 |
| acaaagagggc | tacctatgg | gaacgtgttg | tagcctttgc | tgagtgga | ggcattttct | 960 |
| tttccgggttc | ttttgcgtcg | atattctggc | tcaagaaacg | aggactgatg | cctggcctca | 1020 |
| cattttctaa | tgaacttatt | agcagagatg | agggtttaca | ctgtgatttt | gcttgcttga | 1080 |
| tgttcaaaca | cctggtacac | aaaccatcgg | aggagagagt | aagagaaata | attatcaatg | |

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|------|
| ctgttcggat | agaacaggag | ttcctcactg | aggccttgcc | tgtgaagctc | attgggatga | 1140 |
| attgcactct | aatgaagcaa | tacattgagt | ttgtggcaga | cagacttatg | ctggaactgg | 1200 |
| gttttagcaa | ggttttcaga | gtagagaacc | catttgactt | tatggagaat | atttcactgg | 1260 |
| aaggaaagac | taacttcttt | gagaagagag | taggcgagta | tcagaggatg | ggagtgatgt | 1320 |
| caagtccaac | agagaattct | tttaccttgg | atgctgactt | ctaaatgaac | tgaagatgtg | 1380 |
| cccttacttg | gctgattttt | tttttccatc | tcataagaaa | aatcagctga | agtgttacca | 1440 |
| actagccaca | ccatgaattg | tccgtaatgt | tcattaacag | catctttaaa | actgtgtagc | 1500 |
| tacctcacia | ccagtcctgt | ctgttttatag | tgctggtagt | atcacctttt | gccagaaggc | 1560 |
| ctggctggct | gtgacttacc | atagcagtga | caatggcagt | cttggcttta | aagtgagggg | 1620 |
| tgacccttta | gtgagcttag | cacagcgga | ttaaacagtc | ctttaaccag | cacagccagt | 1680 |
| taaaagatgc | agcctcactg | cttcaacgca | gattttaatg | tttacttaaa | tataaacctg | 1740 |
| gcactttaca | aacaaataaa | cattgttttg | tactcacggc | ggcgataata | gcttgattta | 1800 |
| tttggtttct | acaccaaata | cattctcctg | accactaatg | ggagccaatt | cacaattcac | 1860 |
| taagtgacta | aagtaagtta | aacttggtga | gactaagcat | gtaattttta | agttttattt | 1920 |
| taatgaatta | aaatatttgt | taaccaactt | taaagtcagt | cctgtgtata | cctagatatt | 1980 |
| agtcagttgg | tgccagatag | aagacaggtt | gtgtttttat | cctgtggctt | gtgtagtgtc | 2040 |
| ctgggattct | ctgccccctc | tgagtagagt | gttgtgggat | aaaggaatct | ctcagggcaa | 2100 |
| ggagcttctt | aagttaaate | actagaaatt | taggggtgat | ctgggccttc | atatgtgtga | 2160 |
| gaagccgttt | cattttattt | ctcactgtat | tttctcaac | gtctggttga | tgagaaaaaa | 2220 |
| ttcttgaaga | gttttcatat | gtgggagcta | aggtagtatt | gtaaaatttc | aagtcacctc | 2280 |
| taaacaaaat | gatccaccta | agatcttgcc | cctgttaagt | ggtgaaatca | actagaggtg | 2340 |
| gttcctacaa | gttggttcatt | ctagttttgt | ttggtgtaag | taggttgtgt | gagttaattc | 2400 |
| atttatattt | actatgtctg | ttaaatcaga | aattttttat | tatctatgtt | cttctagatt | 2460 |
| ttacctgtag | ttcataaaaa | aaaaaaaaaa | aaaaaaaaaa | | | 2500 |

<210> 1828
 <211> 1707
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| <400> 1828 | | | | | | 60 |
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| ccggcgagtc | ccagtggagag | cggaggggtgc | cagaggtagg | gggcccagaa | acaaagttcc | 180 |
| cggggcttcc | tccggggccg | cggtcggggc | tgcgcgtttg | accgcccccc | tcctcgcgaa | 240 |
| gcaatggctt | ccaaactcct | gcgcgcggtc | atcctcgggc | cgcccggctc | gggcaagggc | 300 |
| accgtgtgcc | agaggatcgc | ccagaacttt | ggtctccagc | atctctccag | cggccacttc | 360 |
| ttgcgggaga | acatcaaggc | cagcaccgaa | gttggtgaga | tggcaaagca | gtatatagag | 420 |
| aaaagtcttt | tggttccaga | ccatgtgatc | acacgcctaa | tgatgtccga | gttgaggaaac | 480 |
| aggcgtggac | agcactggct | ccttgatggg | tttcctagga | cattaggaca | agccgaagcc | 540 |
| ctggacaaaa | tctgtgaagt | ggatctagt | atcagtttga | atattccatt | tgaaacactt | 600 |
| aaagatcgtc | tcagccgccg | ttggattcac | cctcctagcg | gaaggggtata | taacctggac | 660 |
| ttcaatccac | ctcatgtaca | tggtattgat | gacgtcactg | gtgaaccggt | agtccagcag | 720 |
| gaggatgata | aaccggaagc | agttgctgcc | aggctaagac | agtacaaaga | cgtggcaaag | 780 |
| ccagtcattg | aattatacaa | gagccgagga | gtgctccacc | aattttccgg | aacggagacg | 840 |
| aacaaaatct | ggccctacgt | ttacacactt | ttctcaaaca | agatcacacc | tattcagtcc | 900 |
| aaagaagcat | attgaccctg | cccaatggaa | gaaccaggaa | gatgtggtca | ttcattcaat | 960 |
| agtgtgtgta | gtattggtgc | tgtgtccaaa | ttagaagcta | gctgaggtag | cttgagcagc | 1020 |
| cttttctagt | tgaaatgggt | aactgatagg | aaaacaaatg | agtagaaaga | gttcatgaag | |

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|------|
| aggccctcct | ctgcctttca | aaaggctggt | cacctacaca | tgtttaaggt | gtctctgcac | 1080 |
| atgtctcaag | cccatcacaa | gaaagcaagt | acagtgtgga | tttcaaattg | tgtgtaactt | 1140 |
| cagctccagc | tggtttttga | cagctgttgc | tgtggttaata | tttttgacat | gtgatggtga | 1200 |
| tagtctctgg | ttctcccat | ccccacaaag | gctgttgaac | cacagcacca | ggaagcctga | 1260 |
| gaatgaatcc | tgagggtct | agcccaggct | ttgtcccagg | ctttctggtg | tgtgcccctc | 1320 |
| tggtaacagt | gaaattgaag | ctacttactc | atagtgtgtg | tttctctggt | cttgagtgc | 1380 |
| tgtgtccaca | gttcattttt | ttccggtagg | aataactcct | tttctacatc | cacgctccat | 1440 |
| agagtctctc | cttttcagac | atcctgggat | gaaagaattt | ggcttttttt | tttctttttt | 1500 |
| ttttggacat | ctgttttcac | tcttaggctt | ttaaacaata | gttattgctt | ttatccctct | 1560 |
| cagattctaa | taactgagag | cgatggggct | atattgaatc | tctgtatgca | ctgagaactg | 1620 |
| agctatgaag | agaatcttat | taaactgctg | gtctgacttt | atggattgac | actgttcctt | 1680 |
| tctttttattg | tgaaaaaaaa | aaaaaaaa | | | | 1707 |

<210> 1829
 <211> 1812
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| <400> 1829 | | | | | | |
| attcatacag | gagagaaccc | ctatgaatgc | catgaatgtg | ggaaagcctt | cagtcggaaa | 60 |
| taccagctta | tttcacacca | gagaactcat | gcaggagaga | agccttatga | atgcaccgac | 120 |
| tgtggaaagg | cttttggttt | aaagtcacag | cttattatac | accagagaac | tcatacaggg | 180 |
| gagaaaccat | ttgaatgtag | tgagtgtcag | aaagccttta | atacaaagtc | aaacctgatt | 240 |
| gtacatcaga | gaactcatac | aggagagaaa | ccctatagtt | gtaatgaatg | tggaaaagcc | 300 |
| tttacgttca | aatcacagct | cattgtacat | aaaggagtgc | acactggagt | aaaaccctat | 360 |
| ggatgcagtc | aatgtgcaaa | aacctttagt | ttgaagtccc | agctcattgt | acatcagaga | 420 |
| agtcacacag | gagtaaaacc | atatggatgc | agtgaagtgtg | ggaaagcctt | caggagcaag | 480 |
| tcatacctta | ttatacatat | gagaactcat | acaggagaga | aaccacatga | gtgcagggaa | 540 |
| tgcgggaaat | ccttttagttt | caattcacaa | ctcattgtgc | atcagagaat | tcacacagga | 600 |
| gaaaatccct | atgaatgcag | tgaatgtggg | aaagccttta | ataggaaaga | ccagctcatt | 660 |
| tcacatcagc | gaactcatgc | aggggaaaag | ccttatgggt | gcagtgaatg | tgggaaagct | 720 |
| tttagcagca | agtcatacct | aattatacac | atgagaactc | attcaggtga | aaaaccatat | 780 |
| gaatgtaatg | aatgtgggaa | agccttcatt | tggaaatcac | tactcattgt | acatgagcga | 840 |
| actcatgcag | gggtcaaccc | ttataaatgc | agtcaatgtg | agaaatcctt | cagtgggaaa | 900 |
| ttacgccttc | ttgtacacca | gagaatgcac | acaacagaga | aaccatatga | atgcagtgcg | 960 |
| tgtggaaaag | ccttcattag | gaattctcaa | ctcattgtac | atcaaagaac | tcattcagga | 1020 |
| gagaaaccct | atgggtgcaa | tgaatgtggg | aaaaccttct | ctcaaaaatc | aattctcagt | 1080 |
| gcacatcaga | gaacacatac | aggagagaag | ccttgtaagt | gcactgaatg | tgggaaagcc | 1140 |
| ttttgttgga | agtcacagct | cattatgcat | cagagaactc | atgtagatga | caaacattga | 1200 |
| taattttacg | aaactctgaa | aagtggattc | acaagagata | gaaacaatca | tatataaaga | 1260 |
| gaaactctgt | aagtggatc | atcttgtcat | cttccagaaa | actcactactg | aatagaactt | 1320 |
| tatgaatgca | cagcatatgg | aaaggcatcc | acagaaagct | gttctttaca | tgcaaaaaga | 1380 |
| tagtagacaa | tacacaggaa | aactgaattt | agtaaccact | ctgaaaattt | ttagcagcaa | 1440 |
| gtcatacctt | tttttaaaaa | gttcatacag | gtgaggaacc | atgttaaacy | ttgtaaagtc | 1500 |
| attttactaa | cataagattc | acaaagagga | aacttcatga | accagatgaa | tatagaatag | 1560 |
| acttctttga | aattcatagt | ttacagaatt | ttaatgagag | aaattattga | gctaataaat | 1620 |
| ggcagaatta | acaaaattac | aaacatttta | tgtatcggaa | ggatatacct | tggagggacc | 1680 |

atgctatgag ggaaagtgt aatctagaaa tgagaaaccc ctagggaaaa aatatatata 1740
 ggagtgaaca tcttatgaat gtaccaaata aaccacagct ggactgttaa cctcacctta 1800
 gaagcttcat tc 1812

<210> 1830
 <211> 2905
 <212> DNA
 <213> Homo sapiens

<400> 1830
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 cttaaccttg acctgttcc tgatgaagaa attgaacca gtccagaaac acctccacct 180
 ccagcatcct cagccaaagt aaacaaaatt gtaaagaatc gacggactgt agcttctatt 240
 aagaatgacc ctcttcaag agataataga gtggttgggt cagcacgtgc acggcccagt 300
 caatttctg aacagtcttc ctctgcacaa cagaatggta gtgtttcaga tatatctcca 360
 gttcaagctg caaaaaagga atttggaccc ccttcacgta gaaaatctaa ttgtgtgaaa 420
 gaagtagaaa aactgcaaga aaaacgagag aaaaggagat tgcaacagca agaacttaga 480
 gaaaaaagag cccaggacgt tgatgctaca aacccaaatt atgaaattat gtgtatgatc 540
 agagacttta gaggaagttt ggattataga ccattaacaa cagcagatcc tattgatgaa 600
 cataggatat gtgtgtgtgt aagaaaacga ccactcaata aaaaagaaac tcaaatgaaa 660
 gatcttgatg taatcacaaat tcttagtaaa gatgttgatg tggatcatga accaaaacaa 720
 aaagtagatt taacaaggta cctagaaaac caaacatttc gttttgatta tgcctttgat 780
 gactcagctc ctaatgaaat ggtttacagg tttactgcta aaccactagt ggaaactata 840
 tttgaaaggg gaatggctac atgctttgct tatgggcaga ctggaagtgg aaaaactcat 900
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 ggaaaatgtt ttgtccttca cctgaattac atttcaattt tgtgaaacac tcttttgtct 2220
 acaaaatgct tctagtccag gaggcacaac caagaactgg gattaatgaa gcattttggt 2280

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|------|
| tcattttacac | aaatagtgat | ttacttttgg | agatccttgt | cagtttttatt | ttctatttga | 2340 |
| tgaagtaaga | ctgtggactc | aatccagagc | cagatagtag | gggaagccac | agcatttcct | 2400 |
| tttaactcag | ttcaattttt | gtagtggagc | tgagcagttt | taaatccttt | gcgtgcatgc | 2460 |
| atacctcatc | agtgattgta | cataccttgc | ccactcctag | agacagctgt | gctcactttt | 2520 |
| cctgctttgt | gccttgatta | aggctactga | ccctaaattt | ctgaagcaca | gccaagaaaa | 2580 |
| attacattcc | ttgtcattgt | aaattacctt | tgtgtgtaca | tttttactgt | atttgagaca | 2640 |
| ttttttgtgt | gtgactagtt | aattttgcag | gatgtgccat | atcattgaac | ggaactaaag | 2700 |
| tctgtgacag | tggatatagc | tgctggacca | ttccatctta | tatgtaaaga | aatctggaat | 2760 |
| tattatttta | aaacatata | acatgtgatt | ataatttttc | ttagcatttt | ctttgtaaag | 2820 |
| aactacaata | taaactagtt | ggtgtataat | aaaaagtaat | gaaattctga | agaaaaaaa | 2880 |
| aaaaaaaaa | aaaaaaaaa | aaaaa | | | | 2905 |

<210> 1831
 <211> 1625
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| tgggaactca | gtttatatga | gttacaacga | acacctcagg | aggcaataac | agatggctta | 120 |
| gaaattgtgg | tttcacctcg | aagtctacac | agtgaattaa | tgtgcccatt | ttgtttggat | 180 |
| atgttgaaga | acaccatgac | tacaaaggag | tgtttacatc | gtttttgtgc | agactgcatc | 240 |
| atcacagccc | ttagaagtgg | caacaaagaa | tgtcctacct | gtcggaaaaa | actagtttcc | 300 |
| aaaagatcac | taaggccaga | cccaaacttt | gatgcactca | tcagcaaaat | ttatccaagt | 360 |
| cgtgatgagt | atgaagctca | tcaagagaga | gtattagcca | ggatcaacaa | gcacaataat | 420 |
| cagcaagcac | tcagtcacag | cattgaggaa | ggactgaaga | tacaggccat | gaacagactg | 480 |
| cagcgaggca | agaaacaaca | gattgaaaat | ggtagtggag | cagaagataa | tggtgacagt | 540 |
| tcacactgca | gtaatgcac | cacacatagc | aatcaggaag | caggccctag | taacaaacgg | 600 |
| acaaaaacat | ctgatgattc | tgggctagag | cttgataata | acaatgcagc | aatggcaatt | 660 |
| gatccagtaa | tggatggtgc | tagtgaaatt | gaattagtag | tcaggcctca | tcccacactt | 720 |
| atggaaaaag | atgacagtgc | acagacgaga | tacataaaga | cttctggtaa | cgccactggt | 780 |
| gatcacttat | ccaagtatct | ggctgtgagg | ttagcttttag | aagaacttcg | aagcaaaggt | 840 |
| gaatcaaacc | agatgaacct | tgatacagcc | agtgagaagc | agtataccat | ttatatagca | 900 |
| acagccagtg | gccagttcac | tgtattaaat | ggctcttttt | ctttggaatt | ggtcagtgag | 960 |
| aaatactgga | aagtgaacaa | acccatggaa | ctttattacg | cacctacaaa | ggagcacaaa | 1020 |
| tgagccttta | aaaaccaatt | ctgagactga | acttttttat | agcctatttc | tttaatatta | 1080 |
| aagatgtact | ggcattactt | ttatggacag | atcttggata | tgttggtcaa | ttttctttct | 1140 |
| gagccagaat | agtttacgct | attcaaactc | tttccccctt | atttaagatt | tccttttttg | 1200 |
| aagggactgc | aattattcag | tatttttttc | tttcttttaa | aaaaatatat | ctgaagtttc | 1260 |
| ttgtgttttt | tttttttccc | cacaaagtgt | gtttccactt | ggagcaccat | tttgaccagg | 1320 |
| gaattttttca | tagtttctgt | attcttataa | gattcagtgg | ctgtcctttt | cctgctcccc | 1380 |
| tcaaaagatt | tttagtcata | cagaatgtta | aatattatgt | attctgacct | tttttttttc | 1440 |
| ccccggagtc | ttggtatatt | tatagttttc | tatataaact | gtagtatctt | catgaagacc | 1500 |
| caaggctcaa | atttactgtc | cttaaaaaca | attctcatag | gattattctt | ttcatgggat | 1560 |
| cttcttccat | aatatctcat | tttaaaaaga | agttctatat | gaactttttg | tccattgtca | 1620 |
| tgcaa | | | | | | 1625 |

<210> 1832

<211> 2379
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-------------|------|
| <400> 1832 | ggaattccgg | tcggcctctc | gcccttcagc | tacctgtgcg | tccctccgtc | ccgtcccgtc | 60 |
| | ccgggggtcac | cccggagcct | gtccgctatg | cggctcctgc | ctctagcccc | aggtcgggctc | 120 |
| | cggcggggca | gccccgcga | cctgccctcc | tgcagcccag | cgctgctact | gctgggtgctg | 180 |
| | ggcggtgcc | tgggggtctt | cgggggtggct | gcggggaaccc | ggaggcccaa | cgtgggtgctg | 240 |
| | ctcctcacgg | acgaccagga | cgaagtgtctc | ggcggcattga | caccactaaa | gaaaacccaaa | 300 |
| | gctctcatcg | gagagatggg | gatgactttt | tccagtgtctt | atgtgccaa | tgctctctgc | 360 |
| | tgccccagca | gagccagtat | cctgacagga | aagtacccac | ataatcatca | cgttgtgaac | 420 |
| | aacactctgg | aggggaactg | cagtagtaag | tcctggcaga | agatccaaga | accaaataact | 480 |
| | ttcccagcaa | ttctcagatc | aatgtgtggt | tatcagacct | tttttgagg | gaaatattta | 540 |
| | aatgagtacg | gagccccaga | tgcaggtgga | ctagaacacg | ttcctctggg | ttggagttac | 600 |
| | tggtatgcct | tggaaaagaa | ttctaagtat | tataattaca | ccctgtctat | caatgggaag | 660 |
| | gcacggaagc | atggtgaaaa | ctatagtgtg | gactacctga | cagatgtttt | ggctaagtgc | 720 |
| | tccttggact | ttctggacta | caagtcacac | tttgagccct | tcttcatgat | gatcgccact | 780 |
| | ccagcgctc | attgccttg | gacagctgca | cctcagtacc | agaaggcttt | ccagaatgtc | 840 |
| | tttgaccaa | gaaacaagaa | cttcaacatc | catggaacga | acaagcactg | gttaattagg | 900 |
| | caagccaaga | ctccaatgac | taattcttca | atacagtttt | tagataatgc | atttaggaaa | 960 |
| | agggtggcaa | ctctcctctc | agttgatgac | cttgtggaga | aactgggtcaa | gaggctggag | 1020 |
| | ttcactgggg | agctcaacaa | cacttacatc | ttctatacct | cagacaatgg | ctatcacaca | 1080 |
| | ggacagtttt | ccttgccaat | agacaagaga | cagctgtatg | agtttgatat | caaagttcca | 1140 |
| | ctgtttggtc | gaggacctgg | gatcaaacca | aatcagacaa | gcaagatgct | ggttgccaac | 1200 |
| | attgacttgg | gtcctactat | tttgacatt | gctgggtacg | acctaaataa | gacacagatg | 1260 |
| | gatgggatgt | ccttattgcc | cattttgaga | ggtgccagta | acttgacctg | gcgatcagat | 1320 |
| | gtcctgggtg | aataccaagg | agaaggccgt | aacgtcactg | acccaacatg | cccttccctg | 1380 |
| | agtctggcg | tatctcaatg | cttcccagac | tgtgtatgtg | aagatgctta | taacaatacc | 1440 |
| | tatgcctgtg | tgaggacaat | gtcagcattg | tgggaatttg | agtattgcga | gtttgatgac | 1500 |
| | caggaggtgt | ttgtagaagt | ctataatctg | actgcagacc | cagaccagat | cactaacatt | 1560 |
| | gctaaaacca | tagaccaga | gcttttagga | aagatgaact | atcggttaat | gatgttacag | 1620 |
| | tcctgttctg | ggccaacctg | tcgcactcca | gggggttttg | accccgata | caggtttgac | 1680 |
| | ccccgtctca | tgttcagcaa | tcgcggcagt | gtcaggactc | gaagattttc | caaacatctt | 1740 |
| | ctgtagcgac | ctcacacagc | ctctgcagat | ggatccctgc | acgcctcttt | ctgatgaagt | 1800 |
| | gattgtagta | ggtgtctgta | gctagtcttc | aagaccacac | ctggaagagt | ttctgggctg | 1860 |
| | gctttaagtc | ctgtttgaaa | aagcaacca | gtcagctgac | ttcctcgtgc | aatgtgttaa | 1920 |
| | actgtgaact | ctgccatgt | gtcaggagt | gctgtctctg | gtctcttctt | ttagctgaca | 1980 |
| | aggacactcc | tgaggtcttt | gttctcactg | tatttttttt | atcctggggc | cacagttctt | 2040 |
| | gattattcct | cttgtgggta | aagactgaat | ttgtaaaccc | attcagataa | atggcagtac | 2100 |
| | tttaggacac | acacaaacac | acagatacac | cttttgatat | gtaagcttga | cctaaagtca | 2160 |
| | aaggacctgt | gtagcatttc | agattgagca | cttccactatc | aaaaatacta | acatcacatg | 2220 |
| | gcttgaagag | taaccatcag | agctgaatca | tccaagtaag | aacaagtacc | attgttgatt | 2280 |
| | gataagtaga | gatacatctt | ttatgatgtt | catcacagt | tggttaagggt | gcaaattcaa | 2340 |
| | aacatgtcac | ccaagctctg | ttcatgtttt | tgtgaattc | | | 2379 |

<210> 1833
 <211> 806

<212> DNA
<213> Homo sapiens

<400> 1833
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 cgggtgctggc agtggcttag gcctgggtgg aggaagcagc tactcctatg gcagtgggtct 120
 tggcgttgga ggcggcttta gttccagcag cggcagagcc actgggggtg gcctcagctc 180
 tgttgagggc ggcagttcca ccatcaagta caccaccacc tcctcctcca gcaggaagag 240
 ctacaagcac tgaagctgtg ccgccagctc tcagtccac agctctcagg cccctctctg 300
 gcagcagagc cctctcctca ggttgcttgt cctccccctgg cctccagtct cccctgccct 360
 cccgggtaga gctgggatgc cctcactttt cttctcatca atactgttcc actgagctcc 420
 tgttgcttac catcaagtca acagttatca gcactcagac atgcgaatgt ctttttagt 480
 tccccgtatta ttacaggtat ctgagctctgc cataattctg agaagaaaaa tgacctatat 540
 cccccataag aactgaaact cagtctagga gttctcatct gacaagtcag ttgtcctgat 600
 cttctcttgc agtgtcctga atggcaagta gtgtaccttc tagtgcagtc tgcattcctg 660
 cactgctttc tctgctctct ttgccttctt ttgttctgtg tgaataaagc atattgagaa 720
 tgtgaacatg ttgtgttaga ttgtattgct gaccacttcc tggtttagaa acattcgcac 780
 cccacaaatg gtttcttacc tttggg 806

<210> 1834
<211> 1306
<212> DNA
<213> Homo sapiens

<400> 1834
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 ggctgcggca ctgggaggga gacccacag tggcctcttc tgccaccac gcccccaccc 120
 ctggcatggc cgaccagctg actgaggagc aggtcacaga attcaaggag gccttctccc 180
 tgtttgacaa ggatggggac ggctgcatca ccaccgcga gctgggcacg gtcattgcgt 240
 ccctgggcca gaacccacg gagggcagc tgcgggacat gatgagttag atcgaccggg 300
 acggcaacgg caccgtggac ttccccgagt tcctgggcat gatggccagg aagatgaagg 360
 acacggacaa cgaggaggag atccgcgagg ccttcgcgt gttcgacaag gacggcaacg 420
 gcttcgtcag cgccgccgag ctacgacacg tcatgaccgc gctgggggag aagctgagt 480
 acgaggaggt ggacgagatg atccgggccg cggacacgga cggagacgga caggtgaact 540
 acgaggagtt tgtccgtgtg ctggtgtcca agtgaggccg gcgcccacca tgctcctggg 600
 cgcccacgcg gccacaggg caagaacccg gggcctccc cctcctccc catccccctg 660
 cctccccctg gactgtggc ttctcctgc gcctggttga ttcagccac ctctctgcat 720
 cccgcttccc ggtctcttc tctgcactcc tgccgacctt cccacctgct catctgaatg 780
 acacggaacg ctcccactgc aggcaaaccg tgacgccctc cccactcggg agaagcagag 840
 ctgaccttag gaccgagcac cagggcaggt tgcgctgact ctgcggccct ccaggacgga 900
 caccgggtga ccccttaggc accaggcaag atccctaaga ggcacccaat gccaggcca 960
 gggggctgca gccctcagcc cccgccagga ttccgcaggc tcctggactg gaagctccct 1020
 ccgcggtcgg attctggagt gtgggaggca tcttgacctg cagtaagcgg tgctgacggg 1080
 gactctggcc acagaggtca ggcctcctga aaacagcact gccttcgcg ctgccccagc 1140
 ttgccccatt ccttgtccgc caaccaccg tgattcatct tctgaagctg ggagtgaac 1200
 tgggtcagct gtaacctgtt cctattcatc tggaaggagg gaggcttggg tgagcagggg 1260
 atgagagctg cagggaataa aatgagatat tcgtccttaa aaaaaa 1306

<210> 1835
<211> 1496
<212> DNA
<213> Homo sapiens

| | | | | | | | | |
|-------|------|-------------|------------|------------|-------------|------------|-------------|------|
| <400> | 1835 | gggcccggcgg | ctgcggcggc | tggagcaggc | gagcggcggc | ggccgatagc | gagtgtcagg | 60 |
| | | gccggccggg | gcggcgcttc | tggcctgtc | gctggtcggc | ctcctactgt | acctcgtgcc | 120 |
| | | tgtgcggct | gcgtggcct | ggctggcct | ggggactacc | gcggcctggg | ggggactgag | 180 |
| | | ccgcgagccc | cgaggttcgc | gccccttgtc | ctccttcgtt | cagaaggcgc | gacatcggcg | 240 |
| | | aacactgttc | gcttcgcctc | cggccaagtc | gacagccaac | ggaaacctcc | tagagccgcg | 300 |
| | | gacctgtctc | gaaggacctg | accctgccga | actgctcctc | atgggcagtt | acctgggcaa | 360 |
| | | gccccgggccc | ccgcagcccc | cccccgctcc | ggaggggccag | gacctgcgga | ataggcctgg | 420 |
| | | ccgcccggcc | cccggccggc | gccgcgctcc | acaccgcct | ccccgccgac | ccatcgcggt | 480 |
| | | caccactttt | accctctctc | cccactcct | cttctccgac | cctccgggag | gccttccccca | 540 |
| | | cgggatcgtg | ggactttacc | agatcggttt | gtaataacac | ctcgaagacg | ctatccgatc | 600 |
| | | catcaggccc | agtattcctg | tccgggggta | cttcccacag | tgtgctggaa | tggttatcac | 660 |
| | | aagaaggctg | tgctgtcccc | tcgcaactcc | aggatggtgt | gtagcccagt | gactgtgagg | 720 |
| | | atcgccccctc | ctgacagaag | attttcgcg | tctgcgatac | cagagcagat | aatcagctca | 780 |
| | | acactgtcct | caccatcaag | taatgcccc | gacctatgtg | caaaggagac | tgtactgagt | 840 |
| | | gccctcaaag | agaagaagaa | gaaaaggaca | gtggaggaag | aagaccaa | attccttgat | 900 |
| | | ggccaggaaa | ataaaagaag | ctgtcttgtc | gacggtctca | ctgatgcctc | ttctgcattc | 960 |
| | | aaagtctctc | gaccggggcc | agatacactc | cagttcacag | tggatgtctt | ccactttgct | 1020 |
| | | aatgactcca | gaaacatgat | atacatcacc | tgccacctga | aggtcaccct | agctgagcag | 1080 |
| | | gaccagatg | aactcaacaa | ggcctgttcc | ttcagcaagc | cttccaacag | ctggttccca | 1140 |
| | | gtggaaggcc | cggctgacat | ctgtcaatgc | tgtaaacaa | gtgactgtgg | cactccaagc | 1200 |
| | | cattccagga | ggcagcctcg | tgtcgtgagc | cagtgggtcca | cgtctgcttc | ccgtaaccgc | 1260 |
| | | aggcatgtga | cagaagaagc | agatgtcacc | gtggggggcca | ctgatcttcc | tggacaggag | 1320 |
| | | tggtgaccat | gaagtagagc | agtgggcttt | gccttctgac | acctcagtgg | tgctgctggg | 1380 |
| | | cgtaggcctg | gctgtggtgg | tgtccctgac | tctgactgct | gttatcctgg | ttctcaccag | 1440 |
| | | gaggtgtcgc | actgcctccc | accctgtgtc | tgcttccgaa | taaaagaaga | aagcaa | 1496 |

<210> 1836
 <211> 1025
 <212> DNA
 <213> Homo sapiens

| | | | | | | | | |
|-------|------|-------------|------------|-------------|-------------|-------------|------------|-----|
| <400> | 1836 | gtcccagagcg | cgagcggaga | cgatgcagcg | gagactgggt | cagcagtggg | gcgtcgcggt | 60 |
| | | gttctctgtg | agctacgcgg | tgccctcctg | cgggcgctcg | gtggaggggtc | tcagccgccg | 120 |
| | | cctcaaaaga | gctgtgtctg | aacatcagct | cctccatgac | aaggggaagt | ccatccaaga | 180 |
| | | tttacggcga | cgattcttcc | ttcaccatct | gatcgcagaa | atccacacag | ctgaaatcag | 240 |
| | | agctacctcg | gaggtgtccc | ctaactccaa | gccctctccc | aacacaaaga | accaccccgt | 300 |
| | | ccgattttggg | tctgatgatg | agggcagata | cctaactcag | gaaactaaca | aggtggagac | 360 |
| | | gtacaaagag | cagccgctca | agacacctgg | gaagaaaaag | aaaggcaagc | ccgggaaacg | 420 |
| | | caaggagcag | gaaaagaaaa | aacggcggaac | tcgctctgcc | tggttagact | ctggagtgc | 480 |
| | | tgggagtggg | ctagaagggg | accacctgtc | tgacacctcc | acaacgtcgc | tggagctcga | 540 |
| | | ttcacggagg | cattgaaatt | ttcagcagag | accttccaag | gacatattgc | aggattctgt | 600 |
| | | aatagtgaac | atatggaaag | tattagaaat | atttattgtc | tgtaaataact | gtaaatgcat | 660 |
| | | tggaaataaaa | ctgtctcccc | cattgtctcta | tgaaactgca | cattgggtcat | tgtgaatatt | 720 |
| | | tttttttttg | ccaaggctaa | tccaattatt | attatcacat | ttaccataat | ttattttgtc | 780 |
| | | cattgatgta | tttattttgt | aaatgtatct | tgggtgctgct | gaatttctat | attttttgta | 840 |
| | | acataatgca | ctttagatat | acatatcaag | tatgttgata | aatgacacaa | tgaagtgtct | 900 |

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|
| ctattttgtg | gttgatttta | atgaatgcct | aaatataatt | atccaaattg | attttccttc | 960 |
| gtgcatgtaa | aaataacagt | atttttaaatt | tgtaaagaat | gtctaataaa | atataatcta | 1020 |
| attac | | | | | | 1025 |

<210> 1837
 <211> 794
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 1837 | | | | | | |
| gcctgtaaca | gaggttatgg | tgatctgggt | ggatcccaca | gataacctctt | gcaggagata | 60 |
| tttacaagaa | gttccctgaa | tctctttcca | ttgtgatttt | gcattcctta | gcttatatcc | 120 |
| tttatatttt | atgttttcat | ttgtaaagaa | aactaacctg | ttttctcctt | ttctttctct | 180 |
| tccttctttt | tgcaggaggg | attgaaattt | tcagcagaga | ccttccaagg | acatattgca | 240 |
| ggattctgta | atagtgaaca | tatggaaagt | attagaaata | tttattgtct | gtaaatactg | 300 |
| taaatgcatt | ggaataaaac | tgtctccccc | attgctctat | gaaactgcac | attggtcatt | 360 |
| gtgaatatatt | ttttttttgc | caaggcta | ccaattatta | ttatcacatt | taccataatt | 420 |
| tattttgtcc | attgatgtat | ttattttgta | aatgtatctt | ggtgctgctg | aatttctata | 480 |
| ttttttgtaa | cataatgcac | tttagatata | catatcaagt | atgttgataa | atgacacaat | 540 |
| gaagtgtctc | tattttgtgg | ttgattttta | tgaatgccta | aatataatta | tccaaattga | 600 |
| ttttcctttg | tgcattgtaa | aataacagta | ttttaaattt | gtaaagaatg | tctaataaaa | 660 |
| tataatctaa | ttacatcatg | attcagagag | tgaattctat | cctttaagat | ttttagtaga | 720 |
| aggaacatga | tatgtttttt | taaaaagcga | tttgaataca | atcttaaaca | cagtatgttt | 780 |
| atgttggtac | attc | | | | | 794 |

<210> 1838
 <211> 2244
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|------|
| <400> 1838 | | | | | | |
| ctgcagacga | ggcagggaga | ggcgggactt | cgcgggagag | acgtcatcgg | ggcgccggac | 60 |
| gccggggcgc | ctgggagttt | gaagcaaaca | ggcagcgcg | gacaatggcg | gtcgcctcgtg | 120 |
| cagctttggg | gccattgggtg | acgggtctgt | acgacgtgca | ggctttcaag | tttggggact | 180 |
| tcgtgctgaa | gagcgggctt | tcctccccc | tctacatcga | tctgcggggc | atcgtgtctc | 240 |
| gaccgcgtct | tctgagtcag | gttgacagata | ttttattcca | aactgcccaa | aatgcaggca | 300 |
| tcagttttga | caccgtgtgt | ggagtgcctt | atacagcttt | gccattggct | acagttatct | 360 |
| gttcaaccaa | tcaaattcca | atgcttatta | gaaggaaaga | aacaaaggat | tatggaacta | 420 |
| agcgtcttgt | agaaggaact | attaatccag | gagaaacctg | tttaatcatt | gaagatgttg | 480 |
| tcaccagtgg | atctagtgtt | ttggaaactg | ttgaggttct | tcagaaggag | ggcttgaagg | 540 |
| tactgatgc | catagtgtctg | ttggacagag | agcagggagg | caaggacaag | ttgcaggcgc | 600 |
| acgggatccg | cctccactca | gtgtgtacat | tgtccaaaat | gctggagatt | ctcgagcagc | 660 |
| agaaaaaagt | tgatgctgag | acagttggga | gagtgaagag | gtttattcag | gagaatgtct | 720 |
| ttgtggcagc | gaatcataat | ggttctcccc | tttctataaa | ggaagcacc | aaagaactca | 780 |
| gcttcggtgc | acgtgcagag | ctgcccagga | tccaccaggt | tgcacgaag | cttctcaggc | 840 |
| ttatgcaaaa | gaaggagacc | aatctgtgtc | tatctgctga | tgtttcactg | gccagagagc | 900 |
| tggtgcagct | agcagatgct | ttaggacct | gtatctgcat | gctgaagact | catgtagata | 960 |
| ttttgaatga | ttttactctg | gatgtgatga | aggagtgtat | aactctggca | aaatgccatg | 1020 |
| agttcttgat | atgtgaagac | cgggaagttg | cagatatagg | aaacacagtg | aaaaagcagt | 1080 |
| atgaaggagg | tatctttaaa | atagcttctt | gggcagatct | agtaaatgct | cacgtggtgc | 1140 |
| caggctcagg | agttgtgaaa | ggcctgcaag | aagtgggcct | gcctttgcat | cgggggtgcc | 1200 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| tccttattgc | ggaaatgagc | tccaccggct | ccctggccac | tggggactac | actagagcag | 1260 |
| cggttagaat | ggctgaggag | cactctgaat | ttgttggttg | ttttatttct | ggctcccag | 1320 |
| taagcatgaa | accagaattt | cttcacttga | ctccaggagt | tcagttggaa | gcaggaggag | 1380 |
| ataatcttgg | ccaacagtac | aatagcccac | aagaagttat | tggcaaacga | ggttccgata | 1440 |
| tcatcattgt | aggtcgtggc | ataatctcag | cagctgatcg | tctggaagca | gcagagatgt | 1500 |
| acagaaaagc | tgcttgggaa | gcgtatttga | gtagacttgg | tgtttgagt | cttcagatac | 1560 |
| atttttcaga | tacaatgtga | agacattgaa | gatatgtggt | cctcctgaaa | gtcactggct | 1620 |
| ggaaataatc | caattattcc | tgcttggatt | cttccacagg | gcctgtgtaa | gaatgggttc | 1680 |
| tggagtcttc | atggtcttta | ggaaatattg | agtaatttgt | aatcaccgca | ttgatactat | 1740 |
| aataagttca | ttcttaagct | tgcttttttt | gagactgggt | tttgtagac | agccacagtc | 1800 |
| ctgtctgggt | tagggtcttc | cacatttgag | gatccttctt | atctctccat | gggactagac | 1860 |
| tgctttgtta | ttctatttat | tttttaattt | ttttcgagac | aggatctcac | tctgttgccc | 1920 |
| aggatggagt | gcagtggtga | gatcacggct | cattgcagcc | tgcacctccc | aggtgatcct | 1980 |
| cccacctcag | cttccagatt | agctgggtgt | ataggcatgc | accaccacgt | ccatctaaat | 2040 |
| ttctttatta | tttgtagaga | tgaggtcttg | ccatgttacc | caggctgggtc | tcaactcctg | 2100 |
| ggctcaagcg | atcctcctgc | ctcagctctt | caaagtgtct | ggattacagg | tgtgagccac | 2160 |
| tgtgcccagc | ctaattgcag | taagacaaaa | attctagggc | accaagaggc | taaagtcagc | 2220 |
| acagcttttc | ttgtgtcctg | tatt | | | | 2244 |

<210> 1839
 <211> 736
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 1839 | | | | | | |
| ggctctcacc | ctcctctcct | gcagctccag | ctctgtgctc | tgctcttgag | gagaccatgg | 60 |
| cccgccctct | gtgtaccctg | ctactcctga | tggctaccct | ggctgggggt | ctggcctcga | 120 |
| gctccaagga | ggagaatagg | ataatcccag | gtggcatcta | tgatgcagac | ctcaatgatg | 180 |
| agtgggtaca | gcgtgccctt | cacttcgcca | tcagcgagta | caacaaggcc | accgaagatg | 240 |
| agtactacag | acgcccgtct | caggtgctgc | gagccaggga | gcagaccttt | gggggggtga | 300 |
| attacttctt | cgacgtagag | gtgggcccga | ccatattgtac | caagtcccag | cccaacttgg | 360 |
| acacctgtgc | cttccatgaa | cagccagaac | tgcagaagaa | acagttatgc | tctttcgaga | 420 |
| tctacgaagt | tccctgggag | gacagaatgt | ccctgggtgaa | ttccagggtgt | caagaagcct | 480 |
| aggggtctgt | gccaggccag | tcacaccgac | caccaccac | tcccaccccc | tgtagtgtct | 540 |
| ccacccttgg | actggtggcc | cccacctgc | gggaggcctc | cccatgtgcc | tgtgccaaga | 600 |
| gacagacaga | gaaggctgca | ggagtccttt | gttgctcagc | agggcgctct | gcctcccttc | 660 |
| cttcttctt | gcttctaata | gacctggtac | atggtacaca | cacccccacc | tcctgcaatt | 720 |
| aaacagtagc | atcgcc | | | | | 736 |

<210> 1840
 <211> 922
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1840 | | | | | | |
| gtgaccctgg | ccaggactga | cctggagatg | cagatcgaag | gcctgaagga | ggagctggcc | 60 |
| tacctgagga | agaaccacga | ggaggagatg | cttgctctga | gaggtcagac | cggcggagat | 120 |
| gtgaacgtgg | agatggatgc | tgcacctggc | gtggacctga | gccgcatcct | gaatgagatg | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cgtgaccagt | acgagcagat | ggcagagaaa | aaccgcagag | acgctgagac | ctggttcctg | 240 |
| agcaagaccg | aggagctgaa | caaagaagtg | gcctccaaca | gcgaactgg | acagagcagc | 300 |
| cgcagtgaag | tgacggagct | ccggagggtg | ctccagggcc | tggagattga | gctgcagtcc | 360 |
| cagctcagca | cgaaagcatc | cctggagaac | agcctggagg | agaccaaagg | ccgctactgc | 420 |
| atgcagctgt | cccagatcca | gggactgatt | ggcagtgtgg | aggagcagct | ggcccagcta | 480 |
| cgctgtgaga | tggagcagca | gagccaggag | taccagatct | tgctggatgt | gaagacgcgg | 540 |
| ctggagcatg | agattgccac | ctaccgccgc | ctgctggang | gagaggatgc | ccacctttcc | 600 |
| tcccagcaag | catctggcca | atcctattct | tcccgcgagg | tcttcacctc | ctcctcgtcc | 660 |
| tcttcgagcc | gtcagacccg | acccatcctc | aaggagcaga | gctcatccag | cttcagccag | 720 |
| ggccagagtt | cctagaactg | agctgcctct | accacagcct | cctgccacc | agctggcctc | 780 |
| acctcctgaa | ggcccgggtc | aggaccctgc | tctcctggcg | cagttcccag | ctatctcccc | 840 |
| tnctcctctg | ctggtggtgg | gctaataaag | ctgactttct | ggttgatgca | aaaaaaaaaa | 900 |
| aaaaaaaaaa | aaaaaaaaaa | aa | | | | 922 |

<210> 1841
 <211> 1284
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| <400> 1841 | cctctgcttc | ctctaggaac | acaggagttc | cagatcacat | cgagttcacc | atgaattcac | 60 |
| | tcagtgaagc | caacaccaag | ttcatgttcg | atctgttcca | acagttcaga | aaatcaaaag | 120 |
| | agaacaacat | cttctatttc | cctatcagca | tcacatcagc | attagggatg | gtcctcttag | 180 |
| | gagccaaaga | caacactgca | caacaaatta | gcaaggttct | tcactttgat | caagtcacag | 240 |
| | agaacaccac | agaaaaagct | gcaacatata | atgttgatag | gtcaggaaat | gttcatcacc | 300 |
| | agttttcaaaa | gcttctgact | gaattcaaca | aatccactga | tgcatatgag | ctgaagatcg | 360 |
| | ccaacaagct | cttcggagaa | aagacgtatc | aatttttaca | ggaatattta | gatgccatca | 420 |
| | agaaatttta | ccagaccagt | gtggaatcta | ctgattttgc | aaatgctcca | gaagaaagtc | 480 |
| | gaaagaagat | taactcctgg | gtggaaagtc | aaacgaatga | aaaaattaaa | aacctatttc | 540 |
| | ctgatgggac | tattggcaat | gatacgacac | tggttcttgt | gaacgcaatc | tatttcaaag | 600 |
| | ggcagtggga | gaataaattt | aaaaaagaaa | acactaaaga | ggaaaaattt | tggccaaaca | 660 |
| | agaatacata | caaatactgta | cagatgatga | ggcaatacaa | ttcctttaat | tttgctttgc | 720 |
| | tggaggatgt | acaggccaag | gtcctggaaa | taccatacaa | aggcaaagat | ctaagcatga | 780 |
| | ttgtgctgct | gccaaatgaa | atcgatggtc | tgagaagct | tgaagagaaa | ctcactgctg | 840 |
| | agaaattgat | ggaatggaca | agttttgcaga | atatgagaga | gacatgtgtc | gatttacact | 900 |
| | tacctcggtt | caaaatggaa | gagagctatg | acctcaagga | cacgttgaga | accatgggaa | 960 |
| | tggtgaatat | cttcaatggg | gatgcagacc | tctcaggcat | gacctggagc | cacggtctct | 1020 |
| | cagtatctaa | agtcctacac | aaggcctttg | tggagggtcac | tgaggaggga | gtggaagctg | 1080 |
| | cagctgccac | cgctgtagta | gtagtcgaat | tatcatctcc | ttcaactaat | gaagagttct | 1140 |
| | gttgtaatat | ccctttccta | ttcttcataa | ggcaaaaataa | gaccaacagc | atcctcttct | 1200 |
| | atggcagatt | ctcatcccca | tagatgcaat | tagtctgtca | ctccatttag | aaaatgttca | 1260 |
| | cctagagggtg | ttctggtaaa | ctga | | | | 1284 |

<210> 1842
 <211> 3835
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| <400> 1842 | catgcgtgac | tgccccca | ctcacacagc | tctcactccc | cacatgctcc | atgcctcctg | 60 |
| | tccccactga | ggagagctcc | tagaggctcg | cccgtcctcc | actgacatgc | atccctgcag | 120 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| acaaacgagg | cgcccagaga | gcttccccac | tgcacttgcc | agggctgcgg | gcccagcctt | 180 |
| gcccctagct | tctctggcg | ggagctatgg | ctcggaggag | aatggggact | tctgaacata | 240 |
| cctgcccgcg | agggggaccg | gaggtgctcg | gagtgggctt | gtgagggagg | tgggtgccgca | 300 |
| gtccccgctg | agcagcctgg | ccccccagat | cgtgtacttc | actgctacat | ttccctacgt | 360 |
| ggtcgtgggtc | gtgctgcttg | tgcttggagt | gctgctgcct | ggcgccctgg | acagcatcat | 420 |
| ttactatctc | aagcctgact | gggtcaaagct | gggggtccct | caggtgaggt | ggaggtgggg | 480 |
| aggctgcagc | aggggtgttg | gggggagccc | tgcaggcccc | tcatgcctgc | actctccagc | 540 |
| cctttctctg | taggtatgga | tagatgtggg | gaccagatt | ttcttttctt | atgccattgg | 600 |
| cctggggggc | ctcacagccc | tgggcagcta | caaccgcttc | aacaacaact | gctacaagta | 660 |
| agcactgctg | ccctgccacc | cgtgccctgt | cccgccctgc | cctgccccagc | agcctaacc | 720 |
| atccactctg | gcccctccac | ccctccagga | cgccatcatc | ctggctgtca | tcaacagtgg | 780 |
| gaccagcttc | tttgcctggc | tcgtgggtctt | ctccatcctg | ggcttcatgg | ctgcagagca | 840 |
| gggcatgcac | atctccaagg | tggcagagtc | aggtagggcc | ctacccccag | ccccgcctcc | 900 |
| agagcagcaa | ctgccaccca | gatgcatgat | gtacaagaac | acgcaataga | aatgctgaaa | 960 |
| agtgatgagg | attcaaacag | aacttctcag | attgtggggc | tgtgggggca | ggcctgggga | 1020 |
| tttttcaatg | ttgacagaga | caggacctcc | cagccccctgc | tgcattgacc | aggggtgaca | 1080 |
| gcacctcaga | ggcaggcgtg | ggcatggggc | tgagtgttgc | aggcagggct | caggggtgcgc | 1140 |
| gcagggcacg | acatcggctg | caaggtctag | agcctgcacc | tttcccacag | ggccggggcct | 1200 |
| ggccttcac | gcctacccac | aggtgtcac | actgatgcca | gtggccccac | tctgggctgc | 1260 |
| cctgttcttc | ttcatgctgt | tgctgcttgg | tctcgacaac | cagtttgc | gggctctggg | 1320 |
| acagggagcc | aggagagggg | cggagtgagg | gctgcgggca | aggaaagggg | tggaggggtg | 1380 |
| tgcggggctc | ggcctgagct | agcctggcca | cagtttgtag | gtgtggaggg | cttcatcacc | 1440 |
| ggcctcctca | acctcctccc | ggcctcctac | tacttctgtt | tccaaagggg | gatctctgtg | 1500 |
| gccctctgtt | gtgccctccg | ctttgtcatt | gatctctcca | tgggtgactga | tgtgagtggg | 1560 |
| gtgggggggtc | tgctgtgac | ctctgggtggc | cgtctgccat | cctccctgac | tgggctctgt | 1620 |
| ccccagggt | gggatgtatg | tcttccagct | gtttgactac | tactcggcca | gcggcaccac | 1680 |
| cctgctctgg | caggcctttt | gggagtgcgt | ggtgggtggc | tgggtgtatg | gtaggtcatg | 1740 |
| gctgagggct | gggctggggc | atgggtgacg | ggaaggcagg | tctccagctt | ggcctccc | 1800 |
| cctgccttg | ccacaggagc | tgaccgcttc | acggacgaca | ttgcctgtat | gatcgggtac | 1860 |
| cgaccttgcc | cctggatgaa | atgggtgctg | tccttcttca | ccccgctgg | ttgcatggta | 1920 |
| agggctgggg | gaggtggggc | gggggtggggg | gggcggggcg | gggtggggggc | ccattaagg | 1980 |
| acgggcattc | tggctctgtg | ggcatcttca | tcttcaacgt | tgtgtactac | aagccgctgg | 2040 |
| tctacaacaa | cacctacgtg | taccggtgg | gggggtgaggc | catgggctgg | gccttcgtgc | 2100 |
| tgtcctccat | gctgtgcatg | ccactgcacc | tcctgggctg | cctcctcagg | gccaagggca | 2160 |
| ccatggctga | ggtaaggctc | cctcccggcc | tgccctcccc | tcccctgcta | tgaacattca | 2220 |
| accagcctg | cttccctagcc | aaggagtggc | cctgactagg | gtggcaggca | gcaggagctg | 2280 |
| gagagagagg | cagaggaagt | caccgtgggg | atgagcaggt | gactctgggg | gcttcaacat | 2340 |
| gtcctctcct | gcagtgctgg | aagcacctga | cccagcccat | ctggggcctc | caccacttgg | 2400 |
| agtaccgagc | tcaggatgca | gatgtcaggg | gcctgaccac | cctgacccca | gtgtccgaga | 2460 |
| gcagcaaggt | cgtcgtgggtg | gagagtgtca | tgggacagct | cagctcacat | caccagctca | 2520 |
| cctctggtag | ccatagcagc | ccctgcttca | tccccacccc | accctccag | ggggcctgcc | 2580 |
| tttccctgac | acttttgggg | tctgcctggg | agaggagggg | agaaagcacc | atgagtgtc | 2640 |
| actaaaacaa | ctttttccat | ttttaataaa | acgccaacaa | tatcacaacc | caccaaata | 2700 |
| agatgcctct | ccccctccag | tcctagccca | gctggtccta | ggccccgcct | agtgcctcc | 2760 |

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|------|
| ccccacccac | agtgtgtcac | tcttctgtcc | cctgccacgc | ccaccccctg | cccacctctc | 2820 |
| caggttctgc | tctgttagcac | acccttgggt | gacccctcac | cccagaagca | gcagtggcag | 2880 |
| cttgggaaat | gtgaggaagg | gaaggaggga | gagacgggag | ggaggagaga | gaggagaagg | 2940 |
| gaggcagggg | aggggcagca | gaaccaagac | aaatatttca | gctgggctat | accctctctc | 3000 |
| ccatccctgt | tatagaagct | tagagagcca | gccagcagtg | gaaccttctg | gttctctgcg | 3060 |
| caatcaccac | caatatcaat | tgtgtgagct | tgggtgagag | tgcacgcgtg | cgtgagcacg | 3120 |
| tagagtatat | atagatctct | atctcttagc | aaaggtgaat | accagatgta | aatgggtgct | 3180 |
| ctgggcaaag | gaggcttgta | ttttgcacat | tttataacaa | cttgagagaa | tgagatttct | 3240 |
| gcttggtatat | ttctaaaaag | aggaaggagc | cccaaaccce | tcctctcctt | taccactccc | 3300 |
| catttctctg | gagccctacc | ttaccctctc | gcccctagcc | taggagtgtg | aatttataga | 3360 |
| tctaactttc | agaggcaaaa | caaaagcttc | gagctgttga | tgtgcagtct | gttgtgtgga | 3420 |
| tgtgtgtgtg | tgggtcccca | gacccagaat | ggattggaaa | agtgcattgt | ggggcctcgg | 3480 |
| ggctgtcccc | acgtgttccc | tttgcccaca | ggtctgtggg | gcaacaggct | gcaatattcc | 3540 |
| atcctgggtg | tctgggctgc | taacctggcc | tgctcaggct | tcccaccctg | tgccctgggc | 3600 |
| tgggcacacc | cccgggaagg | gaccccgagc | acggctccca | catccaggct | caaggcggat | 3660 |
| gcacttctct | cacctccagt | cttctgtgtg | gcggctttaa | cccacgtatg | tctgtcacgt | 3720 |
| ccagtcccga | gacgggtgag | tgaccccaag | aaaggcttcc | ctgacaccgc | gacagaggct | 3780 |
| ggagggctgg | ggctgggtga | gggtgggtgg | cctgcgggga | cattctactg | tgcta | 3835 |

<210> 1843
 <211> 623
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| <400> 1843 | | | | | | |
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| gttgcagcat | gagttcccag | cagcagaagc | agccctgcat | cccaccccct | cagcttcagc | 120 |
| agcagcaggt | gaaacagcct | tgccagcctc | cacctcagga | accatgcata | cccaaaacca | 180 |
| aggagccctg | ccaccccaag | gtgcctgagc | cctgccaccc | caaagtgcct | gagccctgcc | 240 |
| agcccaaggt | tccagagcca | tgccacccca | aggtgcctga | gccctgccct | tcaatagtca | 300 |
| ctccagcacc | agccagcag | aagaccaagc | agaagtaatg | tgggtccacag | ccatgccctt | 360 |
| gaggagccgg | ccaccagatg | ctgaatcccc | tatcccattc | tgtgtatgag | tcccatttgc | 420 |
| cttgcaatta | gcattctgtc | tcccccaaaa | aagaatgtgc | tatgaagctt | tctttcctac | 480 |
| acactctgag | tctctgaatg | aagctgaagg | tcttagtacc | agagctagtt | ttcagctgct | 540 |
| cagaattcat | ctgaagagag | acttaagatg | aaagcaaatg | attcagctcc | cttatacccc | 600 |
| cattaaattc | actttcaatt | cca | | | | 623 |

<210> 1844
 <211> 683
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| atgtcttatc | aacagcagca | gtgcaagcag | ccctgccagc | cacctcctgt | gtgccccacg | 120 |
| ccaaattgcc | cagagccatg | tccacccccg | aagtcccctg | agccctgccc | accatcaaag | 180 |
| tgtccacagc | cctgcccacc | tcagcagtgc | cagcagaaat | atcctcctgt | gacaccttcc | 240 |
| ccaccctgcc | agccaaagtg | tccacccaag | agcaagtaac | agcttcagga | ttcatcagga | 300 |
| ccatgagagg | ataaggataa | ttggctcacc | tctgtccaca | cctccacttg | catcttctca | 360 |
| ccaaagcctt | ccatggatgc | acagggagct | tctttctcct | taacctgtgg | cctgcctgtg | 420 |
| atgatctgtg | acagcaaaaag | attccctttc | tgaggctgcc | atactgccac | tgtccagggtg | 480 |

<400> 1846
 aaaaactcct ggtacttgag cactgatctg ctttggagaa cctgattctg agactccagc 60
 aggatgtctt atcaacagca gcagtgcaag cagccctgcc agccacctcc tgtgtgcccc 120
 acgccaagt gccagagcc atgtccaccc ccgaagtgcc ctgagccctg cccaccacca 180
 aagtgtccac agccctcccc acctcagcag tgccagcaaa aatgtcctcc tgtgacacct 240
 tccccaccct gccagccaaa gtgtccaccc aagagcaagt aacagcttca gaattcatca 300
 ggagcatgaa aggataagga taattggctc accttggtcc acagcttcac ctgcatcttc 360
 tcatcaaagc ctaccatgga tacacagtta gttcttttcc tcttagccag tgatctgccc 420
 atgatgatcc ctgatagcaa aaggtttctt ttctgaggct gccatattgc cactgtccag 480
 gtggatactg agaaaggaag tcctcagcag tgtcagttcc cagagctttg gaagaaggac 540
 cagcagctct gtccctggga accatcaaaa aatgctgttg atgttttctg tgtctgtctg 600
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 taaatatctt tgcatacgta 680

<210> 1847
 <211> 847
 <212> DNA
 <213> Homo sapiens

<400> 1847
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 gatggaggaa taagaagcta gttatagtca tcggtagaat tgtgaaaggc gcaatttgat 120
 tggttaaaat tgttctttga cgagccaacc aattagaaag gaaataagggt gaaggctatt 180
 ttacatgtat gcgtcactga cacattgccc aatcagagct ggatattttg aattctttat 240
 ttgcatgaaa ggcctataaa aggagagact ctagacacga gcttttattt aagtgcgttc 300
 attctcactg ctgttattgt tttctgacag catgcctgaa ccagctaagt cagctcctgc 360
 tccgaagaag ggttccaaga aggctgtgac caaggcgcag aagaaggatg gcaagaagcg 420
 caagcgcagt cgtaaggaga gctactccgt gtatgtgtac aagggtgctaa aacaggttca 480
 ccccgatact ggcattctcat ccaaggccat gggcatcatg aattccttcg ttaacgacat 540
 cttcgaacgc atcgcaggcg aggcttcccg tctggcccac tacaacaagc gctcgaccat 600
 tacctccagg gagatccaga ccgccgtgcg tctgctgctt cccggagagc tggccaagca 660
 cgcagtgtcc gaaggtagca aggctgtcac caagtataca agctccaagt aaatgtgtgc 720
 ttaggtgctt taaaactcaa aggctctttt cagagccact caagtctcac ataaagagct 780
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 gcacttt 847

<210> 1848
 <211> 9588
 <212> DNA
 <213> Homo sapiens

<400> 1848
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 tcgggagggc ccaggtagcg agcagcgacc tcgcgagcct tccgcactcc cgcgccgttc 180
 cccggccgct cgcctatcct tggccccctc cgcttttctc gcgcgggccc gctcgcctta 240
 tgctcggcg ctgagccgct ctcccgattg cccgcccaca tgagctgcaa cggaggctcc 300
 caccgcgga tcaacactct gggccgcatg atccgcgccg agtctggccc ggacctgcgc 360
 tacgaggtga ccagcggcgg cgggggcacc agcaggatgt actattctcg gcgcggcgctg 420
 atcaccgacc agaactcgga cggctactgt caaacggca cgatgtccag gcaccagaac 480
 cagaacacca tccaggagct gctgcagaac tgctccgact gcttgatgcg agcagagctc 540

| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|------|
| atcgtgcagc | ctgaattgaa | gtatggagat | ggaatacaac | tgactcggag | tcgagaattg | 600 |
| gatgagtgtt | ttgcccaggc | caatgaccaa | atggaaatcc | tcgacagctt | gatcagagag | 660 |
| atgcggcaga | tgggccagcc | ctgtgatgct | taccagaaaa | ggctttcttca | gctccaagag | 720 |
| caaatgcgag | ccctttataa | agccatcagt | gtccctcgag | tccgcagggc | cagctccaag | 780 |
| ggtggtggag | gctacacttg | tcagagtggc | tctggctggg | atgagttcac | caaacatgtc | 840 |
| accagtgaat | gtttggggtg | gatgaggcag | caaagggcgg | agatggacat | ggtggcctgg | 900 |
| ggtgtggacc | tggcctcagt | ggagcagcac | attaacagcc | accggggcat | ccacaactcc | 960 |
| atcggcgact | atcgctggca | gctggacaaa | atcaaagccg | acctgcgcga | gaaatctgcg | 1020 |
| atctaccagt | tggaggagga | gtatgaaaac | ctgctgaaag | cgtcctttga | gaggatggat | 1080 |
| cacctgcgac | agctgcagaa | catcattcag | gccacgtcca | gggagatcat | gtggatcaat | 1140 |
| gactgcgagg | aggaggagct | gctgtacgac | tggagcgaca | agaacaccaa | catcgctcag | 1200 |
| aaacaggagg | ccttctccat | acgcatgagt | caactggaag | ttaaagaaaa | agagctcaat | 1260 |
| aagctgaaac | aagaaagtga | ccaacttgtc | ctcaatcagc | atccagcttc | agacaaaatt | 1320 |
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| cttcaatcaa | aattcgaaca | gatgctggat | ttacactgcg | ctgggttaga | aagactccct | 3240 |
| ggtaccagta | ggcacctggc | tgagcctggc | tggcacagaa | acctctacta | aaaagaagga | 3300 |
| aaatgatctg | agtcacagga | gctgccagga | gttgctggga | gctgaaaaat | cacatccctgg | 3360 |
| cctggcacat | cagaaaggaa | tgggggcctc | ttcaaattag | aagacattta | tactcttttt | 3420 |

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
| tcattggacac | tttgaaatgt | gtttctgtat | aaagcctgta | ttctcaaaca | cagttacact | 3480 |
| tgtgcaccct | ctatcccaat | aggcagactg | ggtttctagc | ccatggactt | cacataagct | 3540 |
| cagaatccaa | gtgaacacta | gccagacact | ctgctctgcc | cttgttccct | aggggacact | 3600 |
| tccctctgtt | tctctttcct | tggctcccat | tactcttcc | agaatccaa | gacccagggc | 3660 |
| ccaggcaaat | cagttactaa | gaagaaaatt | gctgtgcctc | ccaaaattgt | tttgagcttt | 3720 |
| ccatgttgct | gccaaaccata | ccttccttcc | ctgggctgtg | ctacctgggt | ccttttcaga | 3780 |
| agtgagcttt | gctgctacag | gggaagggtg | cctctgtgga | gccccagcat | atgggggcct | 3840 |
| ggattcattt | cctgcccttc | ctcagtttaa | tccttctagt | ttcccacaat | ataaaactgt | 3900 |
| acttactgt | caggaagaaa | tcacagaatc | atatgattct | gcttttacca | tgcccctgag | 3960 |
| caatgtctgt | gctagggaaa | ctccccgtcc | catatcctgc | ctcagcccg | caaggtagcc | 4020 |
| atcccatgaa | cacactgtgt | cctggtgctc | tctgccactg | gaagggcaga | gtagccaggg | 4080 |
| tgtggccctg | ccatcttccc | agcagggcca | ctcccgccac | tccatgctta | gtcactgcct | 4140 |
| gcagaggtct | gtgctgaggc | cttatcattc | attcttagct | cttaattgtt | cattttgagc | 4200 |
| tgaaatgctg | cattttaatt | ttaacaaaaa | catgtctcct | atatcctggt | ttttgtagcc | 4260 |
| ttcctccaca | tcctttctaa | acaagatttt | aaagacatgt | aggtgtttgt | tcactctgtaa | 4320 |
| ctctaaaaga | tccttttttaa | attcagtcct | aagaaagagg | agtgtttgtc | ccctaagagt | 4380 |
| gtttaatggc | aaggcagccc | tgtctgaagg | acacttcctg | cctaaggagg | agtggatatt | 4440 |
| gcagactaga | attctagtgc | tgctgaagat | gaatcaatgg | gaaatactac | tcctgttaatt | 4500 |
| cctacctccc | tgcaaccaac | tacaaccaag | ctctctgcat | ctactcccaa | gtatgggggt | 4560 |
| caagagagta | atgggtttca | tatttcttat | caccacagta | agttcctact | aggcaaaatg | 4620 |
| agagggcagt | gtttcctttt | tggtacttat | tactgctaag | tatttcccag | cacatgaaac | 4680 |
| cttatttttt | ccaaagcca | aaccagatga | gtaaaggagt | aagaaccttg | cctgaacatc | 4740 |
| cttccttccc | accatcgtct | gtgtgttagt | tcccaacatc | gaatgtgtac | aacttaagtt | 4800 |
| ggtcctttac | actcaggctt | tcactatttc | ctttaaaatg | aggatgatta | ttttcaaggc | 4860 |
| cctcagcata | tttgtatagt | tgcttgccctg | atataaatgc | aatattaatg | ccttttaaagt | 4920 |
| atgaatctat | gccaaagatc | acttggttgt | ttactaaaga | aagattactt | agaggaaata | 4980 |
| agaaaaatca | tgtttgctct | cccgggttct | ccagtgggtt | gagacactgg | tttactactt | 5040 |
| atgccggatg | tgtttttctc | caatatcagt | gctcgagaca | cagtgaagca | aattaaaaaa | 5100 |
| aa | | | | | | 5102 |

<210> 1871
 <211> 2786
 <212> DNA
 <213> Homo sapiens

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| <400> 1871 | | | | | | |
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| ataacctcgg | gaggcgggtc | cttcccctca | gtgcggtcac | atacttccag | aagagcggac | 120 |
| cagggtctgt | gccagcacct | gccactcaga | gcgcctctgt | cgctgggacc | cttcagaact | 180 |
| ctctttgtct | acaagttacc | aaaaaaaaaa | gagccaacat | gttggtattg | ctggctggta | 240 |
| tctttgtggg | ccacatcgtc | actgttatta | tgctattttg | tagcaccatt | gccaatgtct | 300 |
| ggttggtttc | caatacggta | gatgcatcag | taggtccttg | gaaaaactgt | accaacatta | 360 |
| gctgcagtga | cagcctgtca | tatgccagt | aagatgccct | caagacagt | caggccttca | 420 |
| tgattctctc | tatcatcttc | tgtgtcattg | ccctcctggg | cttcgtgttc | cagctcttca | 480 |
| ccatggagaa | gggaaaccgg | ttcttcctct | caggggccac | cacactgggt | tgctggctgt | 540 |
| gcattcttgt | gggggtgtcc | atctacacta | gtcattatgc | gaatcgtgat | ggaacgcagt | 600 |
| atcaccacgg | ctattcctac | atcctgggct | ggatctgctt | ctgcttcagc | ttcatcatcg | 660 |
| gcgttctcta | tctgggtcctg | agaaagaaat | aaggccggac | gagttcatgg | ggatctgggg | 720 |

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|------|
| gggtggggagg | aggaagccgt | tgaatctggg | aggggaagtgg | aggttgctgt | acaggaaaaa | 780 |
| ccgagatagg | ggagggggga | gggggaagca | aaggggggag | gtcaaatccc | aaaccattac | 840 |
| tgaggggatt | ctctactgcc | aagcccctgc | cctggggaga | aagtagttgg | ctagtacttt | 900 |
| gatgctccct | tgatggggtc | cagagagcct | ccctgcagcc | accagacttg | gcctccagct | 960 |
| gttcttagtg | acacacactg | tctggggccc | catcagctgc | cacaacacca | gccccacttc | 1020 |
| tgggtcatgc | actgaggtcc | acagacctac | tgcactgagt | taaaatagcg | gtacaagtcc | 1080 |
| tggcaagagc | agatactgtc | tttgtgctga | atacgctaag | cctggaagcc | atcctgcctt | 1140 |
| tctgacccaa | agcaaaacat | cacattccag | tctgaagtgc | ctactggggg | gctttggcct | 1200 |
| gtgagccatt | gtccctcttt | ggaacagata | tttagctctg | tgggaattcag | tgacaaaatg | 1260 |
| ggaggaggaa | agagagtttg | taaggtcatg | ctggtggggt | agctaaacca | agaaggagac | 1320 |
| cttttcacaa | tggaaaacct | gggggatggt | cagagcccag | tcgagacctc | acacacggct | 1380 |
| gtccctcatg | gagacctcat | gccatgggtc | ttgctaggcc | tcttgctgaa | agccaaggca | 1440 |
| gctcttctgg | agtttctcta | aagtcactag | tgaacaattc | ggtggtaaaa | gtaccacaca | 1500 |
| aactatggga | tccaaggggc | agtcttgcaa | cagtgccatg | ttagggttat | gttttttagga | 1560 |
| ttccctcaa | tgcagtcagt | gtttctttta | agtatacaac | aggagagaga | tggacatggc | 1620 |
| tcattgtagc | acaatcctat | tactcttcct | ctaacatttt | tgaggaagtt | ttgtctaatt | 1680 |
| atcaatattg | aggatcaggg | ctcctaggct | cagtggtagc | tctggcttag | acaccacctg | 1740 |
| gagtgatcac | ctcttgggga | ccctgcctat | cccacttcac | aggtgaggca | tggcaattct | 1800 |
| ggaagctgat | taaaacacac | ataaaccaaa | accaaacaac | agggccttgg | gtgaaagggtg | 1860 |
| ctatataatt | gtgaagtatt | aagcctaccg | tatttcagcc | atgataagaa | cagagtgcct | 1920 |
| gcattcccag | gaaaatacga | aaatcccatg | agataaataa | aaatatagggt | gatgggcaga | 1980 |
| tcttttcttt | aaaataaaaa | agcaaaaact | cttgtggtac | ctagtcagat | ggtagacgag | 2040 |
| ctgtctgctg | ccgcaggagc | acctctatac | aggacttaga | agtagtatgt | tattcctggt | 2100 |
| taagcaggca | ttgctttgcc | ctggagcagc | tattttaagc | catctcagat | tctgtctaaa | 2160 |
| gggggttttt | gggaagacgt | tttctttatc | gccctgagaa | gatctacccc | agggagaatc | 2220 |
| tgagacatct | tgcctacttt | tctttattag | ctttctcctc | atccatttct | tttatacctt | 2280 |
| tccttttttg | ggagttgtta | tgccatgatt | tttggtattt | atgtaaaagg | attattacta | 2340 |
| attctatttc | tctatgttta | ttctagttaa | ggaaatgttg | agggcaagcc | accaaattac | 2400 |
| ctaggctgag | gttagagaga | ttggccagca | aaaactgtgg | gaagatgaac | tttgtcatta | 2460 |
| tgatttcatt | atcacatgat | tatagaaggc | tgtcttagtg | caaaaaacat | acttacattt | 2520 |
| cagacatatc | caaagggaat | actcacattt | tgttaagaag | ttgaactatg | actggagtaa | 2580 |
| accatgtatt | cccttatctt | ttactttttt | tctgtgacat | ttatgtctca | tgtaatgtgc | 2640 |
| attactctgg | tggattgttc | tagtactgta | ttgggcttct | tcgttaatag | attatttcat | 2700 |
| atactataat | tgtaaatatt | ttgatacaaa | tgtttataac | tctagggata | taaaaacaga | 2760 |
| ttctgattcc | cttcaaaaaa | aaaaaa | | | | 2786 |

<210> 1872
 <211> 307
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| <400> 1872 | gcgagtcctgg | aactctttct | tcggggcccc | ggggcacacc | atggaggtct | cctgttgaat | 60 |
| | ggcccttggt | gccctagagt | gggacccagc | cctcacctcc | cccagagcta | acctgggagg | 120 |
| | tgctgaagg | gcattgggcc | accgtaagca | agggaaaaag | ggcagatcat | gcggggagat | 180 |
| | gaccttgatc | tttgattgct | accctaacct | tgacctttaa | cccgtgatcc | ccccagctcc | 240 |
| | tggagagatg | tctaatatct | cttagggacc | agaccctaaa | ttctctctcc | ccatttgatg | 300 |

ttagtg

307

<210> 1873
<211> 428
<212> DNA
<213> Homo sapiens

<400> 1873
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tgattccttt agctctaaat ggatacatat gtgccccgca gacagtatac acgcagggat 120
gtgactgagc cacagtgaca tagcaaacc aacagctggc ttgtgaagcc atcgtgatcc 180
caacaaggct tatgttagca attggtgaaa gaagaagaga gtgagatggg acccaggtgg 240
gcctggaggt gggatcctgt gggttttcag agcaccacc agtgctccct tggtagagccc 300
agcaccacct ggaagtggag ggaagctggg tcgctgctgg aaggagaga ggctgactct 360
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ggtctgtt 428

<210> 1874
<211> 409
<212> DNA
<213> Homo sapiens

<400> 1874
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acaaaaacat tcatttcac aaacattca ttgaccacct tcccataggc caacacttga 120
caaacctctt ttcccaacac actggctgat ggcttctaaa agtggctgat ggcgcctaca 180
aagaatcatt cattctttt ttcaccagta aaggctgttc ttggctttcc tctgcttctg 240
tctgcagcag gttcacttgc tgtatcaata acgacttgag aaagcagttt taaataaact 300
tgtaatagaa aaaattcatc atgtttaaga cctataaata cagaaatatg ttttacaggg 360
taaaattgat cacaatatcc ttgttttcaa aaaataataa agtatatac 409

<210> 1875
<211> 1496
<212> DNA
<213> Homo sapiens

<400> 1875
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tccccgggc tgcaaggaat tcggcagcag cgcgcgtcct gccgctctgt cccgcggggg 120
gtcgcccgcc acagcccgcg gaatgaccac ccagcagata gacctcagc gcccgggggc 180
gtggggcttc cgctcgtgg ggcgaaagga cttcgagcag cctctcgcca tttcccggtt 240
cactcctgga agcaaggcgg ctctagctaa tttatgtatt ggagatgtaa tcacagccat 300
tgatggggaa aatactagca atatgacaca cttggaagct cagaacagaa tcaaaggctg 360
cacagacaac ttgactctca ctgtagccag atctgaacat aaagtctggt ctctctggt 420
gacggaggaa ggaagcgtc atccatacaa gatgaattta gcctctgaac cccaggaggt 480
cctgcacata ggaagcggc acaaccgaag tgccatgcc tttaccgcct cgctgcctc 540
cagcactact gccagggtca tcacaaacca gtacaacaac ccagctggc tctactcttc 600
tgaaaatatc tccaacttca acaatgcctt ggagtcaaag actgctgcca gcggggtgga 660
ggcgaacagc agacccttag accatgctca gcctccaagc agccttgtca tcgacaaaga 720
atctgaagtt tacaagatgc ttcaggagaa acaggagttg aatgagcccc cgaaacagtc 780
cacgtctttt ttggttttgc aggaaatcct ggagtctgaa gaaaaagggg atcccaacaa 840
gccctcagga ttcagaagtg ttaaagctcc tgtcactaaa gtggctgcgt cgattggaaa 900
tgctcagaag ttgcctatgt gtgacaaatg tggcactggg attgttggtg tgtttgtgaa 960
gctgcgggac cgtcaccgcc accctgagtg ttatgtgtgc actgactgtg gcaccaacct 1020
gaaacagaag ggccatttct ttgtggagga tcaaactctac tgtgagaagc atgcccggga 1080

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| gcgagtcaca | ccacctgagg | gttatgaagt | ggtcactgtg | ttccccaagt | gagccagcag | 1140 |
| atctgaccac | tgttctccag | caggcctctg | ctgcagcttt | tctctcagtg | ttctggccct | 1200 |
| ctcctctctt | gaaagttctc | tgcttacttt | ggttttccct | ctgcttgtaa | aacattgagg | 1260 |
| cccctccctg | ccttggttaa | ttgactcaca | ccagctgtgg | gatgcccgt | tttacaatta | 1320 |
| aaggaaaact | gttgtgttca | gtgtcacctt | gtcagcaaca | ctgtgtccct | tcgcccgcg | 1380 |
| ttcttctctg | ctgcatttgg | acatcagcca | aatttgaacc | caatcaaata | taacgtgtct | 1440 |
| gacactgatt | ttgtttttac | tcaataaatg | tatagactac | aaaaaaaaaa | aaaaaa | 1496 |

<210> 1876
 <211> 362
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| <400> 1876 | cttgaattaa | gcacagactc | gtcagctcgg | ttgctttatc | atgaataatg | tgtgtgacct | 60 |
| | tgcagttctt | ccacagttca | gcaaacaagt | gctagcttca | ctgaccaaaa | attaaggaag | 120 |
| | gaaaacacag | tttttaaaac | gatccatctt | ttaacagccg | aaaccgatgt | gtctatggtg | 180 |
| | ctgcaccttg | ctgttgtact | tctgaaatca | gacgtgtgtg | aacgatcatt | tctgacttaa | 240 |
| | ccgtgagatg | ctcacgagta | cccttcctgt | tgttttgtaa | gcattgaaat | cgagactatt | 300 |
| | tatttggaat | atatacaaca | gtgtttttcc | actgtatttc | atttgcaaaa | gttgagaact | 360 |
| | gc | | | | | | 362 |

<210> 1877
 <211> 3111
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|-------------|-------------|------------|------------|------------|------|
| <400> 1877 | ggcagcagcg | gagagccgcg | cagggcgcg | gccgcgcggg | gtggggcagc | cggagcgcag | 60 |
| | gcccccgatc | cccggcgggc | gcccccgggc | ccccgcgcgc | gccccggcct | ccgggagact | 120 |
| | ggcgcatgcc | acggagcgcc | cctcgggccg | cgcccgctcc | tgccccggcc | cctgctgctg | 180 |
| | ctgctgtcgc | ctgcgcctgc | tgccccaaact | cggcgcccga | cttcttcatg | gtgtgcggag | 240 |
| | gtcatgttcg | ctccttagca | ggcaaacgac | ttttctcctc | gcctcctcgc | cccgcatgtt | 300 |
| | caggaccaa | cgatctgcgc | tcgtccggcg | tctctggagg | agccgtgcgc | ccggcgccga | 360 |
| | ggacgaggag | gagggcgag | ggggaggtgg | aggaggaggc | gagctgcggg | gagaaggggc | 420 |
| | gacggacagc | cgagcgcatg | gggcccgggtg | cggcgggccc | ggcagggctg | gatgctgcct | 480 |
| | gggcaaggcg | gtgcgaggtg | ccaaagggtca | ccaccatccc | cacccgccag | ccgcgggcgc | 540 |
| | cggcgcgggc | ggggggcgccg | aggcggatct | gaaggcgctc | acgcactcgg | tgctcaagaa | 600 |
| | actgaaggag | cggcagctgg | agctgctgct | ccaggccgtg | gagtcccgcg | gcgggacgcg | 660 |
| | caccgcgtgc | ctcctgctgc | ccggccgcct | ggactgcagg | ctgggcccgg | gggcgcccgc | 720 |
| | cggcgcgag | cctgcgcagc | cgccctcgtc | ctactcgctc | cccctcctgc | tgtgcaaagt | 780 |
| | gttcaggtgg | ccgatctca | ggcattcctc | ggaagtcaag | aggctgtgtt | gctgtgaatc | 840 |
| | ttacgggaag | atcaacccc | agctggtgtg | ctgcaacccc | catcacctta | gccgactctg | 900 |
| | cgaactagag | tctccccccc | ctccttactc | cagataccc | atggattttc | tcaaaccaac | 960 |
| | tgcagactgt | ccagatgctg | tgccttcctc | cgctgaaaca | gggggaacga | attatctggc | 1020 |
| | ccctgggggg | ctttcagatt | cccaacttct | tctggagcct | ggggatcggt | cacactggtg | 1080 |
| | cgtggtggca | tactgggagg | agaagacgag | agtggggagg | ctctactgtg | tccaggagcc | 1140 |
| | ctctctggat | atcttctatg | atctacctca | ggggaatggc | ttttgcctcg | gacagctcaa | 1200 |
| | ttcggacaac | aagagtcagc | tgggtgcagaa | ggtgcggagc | aaaatcggct | gcggcatcca | 1260 |
| | gctgacgcgg | gaggtggatg | gtgtgtgggt | gtacaaccgc | agcagttacc | ccatcttcat | 1320 |
| | caagtccgcc | acactggaca | acccggactc | caggacgctg | ttggtacaca | aggtgttccc | 1380 |

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|------|
| cggtttctcc | atcaaggctt | tcgactacga | gaaggcgtag | agcctgcage | ggcccaatga | 1440 |
| ccacgagttt | atgcagcagc | cgtggacggg | ctttaccgtg | cagatcagct | ttgtgaaggg | 1500 |
| ctgggggtcag | tgctacaccc | gccagttcat | cagcagctgc | ccgtgctggc | tagagggtcat | 1560 |
| cttcaacagc | cggtagccgc | gtgaggaggg | gacagagcgt | gagctgagca | ggccacactt | 1620 |
| caaactactt | tgctgcta | atcttctcc | tgagtgtt | cttttcatgc | aaactctttg | 1680 |
| gtcggttttt | ttttgtttgt | tggttggttt | tcttcttctc | gtcctcgttt | gtgttctgtt | 1740 |
| ttgtttcgct | ctttgagaaa | tagcttatga | aaagaattgt | tggttggttt | tttgaagaa | 1800 |
| ggggcaggta | tgatcggcag | gacaccctga | taggaagagg | ggaagcagaa | atccaagcac | 1860 |
| caccaaacac | agtgtatgaa | ggggggcggt | catcatttca | cttgtcagga | gtgtgtgtga | 1920 |
| gtgtgagtgt | gcggctgtgt | gtgcacgcgt | gtgcaggagc | ggcagatggg | gagacaacgt | 1980 |
| gctctttgtt | ttgtgtctct | tatggatgtc | cccagcagag | aggtttgcag | tcccaagcgg | 2040 |
| tgtctctcct | gccccttgga | cacgctcagt | ggggcagagg | cagtacctgg | gcaagctggc | 2100 |
| ggctgggggtc | ccagcagctg | ccaggagcac | ggctctgtcc | ccagcctggg | aaagcccctg | 2160 |
| cccctcctct | ccctcatcaa | ggacacgggc | ctgtccacag | gcttctgagc | agcagcctg | 2220 |
| ctagtggccg | aaccagaacc | aattattttc | atccttgtct | tattcccttc | ctgccagccc | 2280 |
| ctgccattgt | agcgtctttc | ttttttggcc | atctgtcctc | ggatctccct | gagatgggct | 2340 |
| tcccaagggtc | tgccggggca | gccccctcac | agtattgtc | accagtgcc | ctctcccctc | 2400 |
| agcctctccc | ctgcctgccc | tggtgacatc | aggtttttcc | cggacttaga | aaaccagctc | 2460 |
| agcactgcct | gctcccatcc | tgtgtgttaa | gctctgctat | taggccagca | agcgggggatg | 2520 |
| tccctgggag | ggacatgctt | agcagtcccc | tccctccaa | gaaggatttg | gtccgtcata | 2580 |
| acccaaggta | ccatcctagg | ctgacaccta | actcttcttt | catttcttct | acaactcata | 2640 |
| cactcgtatg | atacttcgac | actgttctta | gctcaatgag | catgtttaga | ctttaacata | 2700 |
| agctattttt | ctaactacaa | aggtttaaat | gaacaagaga | agcattctca | ttggaaattt | 2760 |
| agcattgtag | tgctttgaga | gagaaaggac | tcctgaaaaa | aaacctgaga | tttattaaag | 2820 |
| aaaaaaatgt | atcttatgtt | atatataaat | atattattac | ttgtaaatat | aaagacgttt | 2880 |
| tataagcatc | attatattatg | tattgtgcaa | tgtgtataaa | caagaaaaat | aaagaaaaga | 2940 |
| tgcactttgc | tttaataataa | atgcaaataa | caaatagcaa | attaaaaaag | ataaacacaa | 3000 |
| gattggtgtt | ttttcctatg | ggtgttatca | cctagctgaa | tgtttttcta | aaggagttaa | 3060 |
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<210> 1878
 <211> 210
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | catagtggca | gtattgtagc | tgatcgggaa | atgtttgata | tctcagcaat | tttgcatctt | 180 |
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<210> 1879
 <211> 439
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
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| | ttatctgagg | ccaaacccgc | cactccagaa | atccaggaga | ttgttgataa | ggtaaacca | 120 |
| | cagcttgaag | aaaaaacaaa | tgagacttat | ggaaaatttg | aagctgtgca | gtataaaact | 180 |
| | caagttgttg | ctggaacaaa | ttactacatt | aaggtacgag | caggtgataa | taaatatatg | 240 |

| | | | | | | |
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| cacttgaaag | tattcaaaag | tcttcccga | caaaatgagg | acttggtact | tactggatac | 300 |
| caggttgaca | aaaacaagga | tgacgagctg | acgggctttt | agcagcatgt | acccaaagtg | 360 |
| ttctgattcc | ttcaactggc | tactgagtca | tgatccttgc | tgataaatat | aaccatcaat | 420 |
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<210> 1880
 <211> 270
 <212> DNA
 <213> Homo sapiens

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| tntggccagt | ctagtccttc | ccctttccct | agcccagcac | aattccctcc | attgagggcc | 120 |
| cacatcacct | ccagagggag | gagggagggg | tcagaccccc | ccatagcacc | aatctggata | 180 |
| ggccactctc | tgacaaaaca | gagcgagcag | tgcttccac | aaacggggta | aatggggcta | 240 |
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<210> 1881
 <211> 7071
 <212> DNA
 <213> Homo sapiens

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| aggtccggaa | cccagtctgg | acccgagcgg | ggggccatgg | agaaagcggc | ccgaggcgct | 120 |
| gtttacaccg | actagcgcgg | gcccgttgcg | gctgcaggca | ccatggaccg | agccccacg | 180 |
| gagcagaatg | tcaagctgtc | agctgaggtg | gagccattta | ttccccagaa | gaagagtcct | 240 |
| gatacattta | tgatccctat | ggctctccca | aatgataatg | gaagtgtttc | tggtgtggaa | 300 |
| ccaactccaa | ttcccagcta | cctgattact | tggtacccat | ttgtgcagga | aaaccagtcc | 360 |
| aatagacagt | ttcctttata | taacaatgat | atacgatggc | aacaacccaa | tccaaaccct | 420 |
| actggaccat | actttgccta | tcccattata | tctgctcagc | cgcctgtttc | tacagagtat | 480 |
| acatattatc | agctgatgcc | agcaccatgt | gcccagggtta | tgggtttcta | tcctcctttt | 540 |
| cctacacctt | actccaacac | ctttcaggct | gcaaatactg | taaatgctat | caccacagaa | 600 |
| tgcactgagc | gtccaagtca | gcttggacag | gtcttcccat | tgtccagcca | tcgaagcaga | 660 |
| aacagtaaca | gaggatcagt | ggtcccaaaa | caacagcttt | tacaacagca | cataaaaagc | 720 |
| aaaaggccgc | tgggtgaaaa | tgtagctact | cagaaagaaa | caaatgcagc | aggtcctgat | 780 |
| agtcgatcaa | aaattgtgct | tctggtagat | gcttcacagc | aaactgattt | cccatcagat | 840 |
| atcgctaaca | agtctctctc | agagaccact | gcaacaatgc | tctggaagtc | caagggcagg | 900 |
| agaagaagag | catcccaccc | tactgctgaa | tcttctagt | agcagggggc | tagtgaagcc | 960 |
| gacattgaca | gtgatagtgg | ttactgcagt | cccaaacaca | gcaacaacca | gcctgcagca | 1020 |
| ggggctttga | gaaatcctga | ttctgggacc | atgaatcatg | tggaatcatc | tatgtgtgca | 1080 |
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| aaaaatcaga | cattttctag | aggtggaagg | caaactgaac | aaagaaataa | ttcacagggt | 1200 |
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| ccagataata | agcatttaag | ctctagtcaa | tcccatagaa | gcgatccaaa | ttctgagtct | 1320 |
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| gagaatattc | aacaaaaact | ttcttctaaa | gtattggatg | atttacctga | aaactcacca | 1440 |
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| cctgtgcagc | tagatttagg | ggacatgtta | gctgctctgg | aaaaacaaca | gcaagcaatg | 1680 |
| aaagcacggc | aaattactaa | caccagacct | ctgtcatata | cagtggttac | tgcagcttct | 1740 |
| tttcacacta | aagactctac | taatagaaaa | cctttaacca | aaagtcagcc | ctgtttgaca | 1800 |
| tcctttaatt | ctgtggacat | tgcttcttct | aaagcaaaaa | aaggaaaaga | gaaggaaatt | 1860 |
| gcaaaactaa | aacgaccac | agcacttaaa | aaggttattt | taaaagaaag | agaggaaaag | 1920 |
| aaggggcgct | taactgtgga | ccacaatctt | ttgggatccg | aggaaccaac | agaaatgcac | 1980 |
| ttagatttta | ttgatgactt | gccacaggag | attgtttccc | aggaagatac | tggactaagc | 2040 |
| atgcccagtg | atacttcact | ctctccagca | agtcagaact | ctccatactg | tatgacacct | 2100 |
| gtgtcacaag | gctctcctgc | tagttctgga | ataggcagtc | caatggcatc | ttcaacaata | 2160 |
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<220>
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| gggaggaaaa | cagtggat | taccggcatt | ttattaaact | taaaactttg | tagaaagcaa | 2340 |
| acaaaattgt | tcttgggaga | aatcaactt | ttagattaaa | aaaattttta | gtanctagga | 2400 |
| gtatttaaat | ccttttccca | taaataaaaag | tacagttttc | ttgggtggcag | aatgaaaatc | 2460 |
| agcaacntct | agcatataga | ctatataatc | agattgacag | catatagaat | atattatcag | 2520 |
| acaagatgag | gaggtacaaa | agttactatt | gctcataatg | acttacaggc | taaaantagn | 2580 |
| tntaaaatac | tatattaaat | tctgaatgca | attttttttt | gttccttga | gaccaaatt | 2640 |
| taagttaact | gttgctggca | gtctaagtgt | aatgtttaac | agcaggagaa | gttaagaatt | 2700 |
| gagcagttct | gttgcctgat | ttcccaaagt | aaatactgcc | ttggctagag | tttgaaaaac | 2760 |
| taattgagcc | tgtgcctggc | tagaaaacaa | gcgtttat | gaatgtgaat | agtgtttcaa | 2820 |
| aggtatgtag | ttacagaatt | cctaccaaac | agcttaaatt | cttcaagaaa | gaattcctgc | 2880 |
| agcagttatt | cccttacctg | aaggcttcaa | tcatttggat | caacaactgc | tactctcggg | 2940 |
| aagactcctc | tactcacagc | tgaagaaaat | gagcacaccc | ttcacactgt | tatcacctat | 3000 |
| cctgaagatg | tgatacactg | aatggaaaata | aatagatgta | aataaaaattg | agntctcatt | 3060 |
| taaaaaaaac | catgtgcca | atgggaaaat | gacctcatgt | tgtgggttaa | acagcaactg | 3120 |
| caccactag | cacagcccat | tgagctancc | tatatataca | tctctgtcag | tgcccctc | 3178 |

<210> 1883
 <211> 471
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> | 1883 | | | | | |
| catgaggcct | cttgccacac | tccagaaata | cgtgtgcggc | tgcttttaag | aactatgtgt | 60 |
| ctggtcactt | atttctctaa | aattatctca | ttgcctggca | atcagtcttc | tcttgatac | 120 |
| ttgtcctagc | acattatgta | catgggaaat | gtaaacaaat | gtgaaggagg | accagaaaaa | 180 |
| ttagttaata | tttaaaaaaa | tgtattgtgc | attttggctt | cacatgttta | acttttttta | 240 |
| agaaaaaagt | tgcatgaatg | gaaaaaaaaa | tctgtataca | gtatctgtaa | aaactatctt | 300 |
| atctgtttca | attccttgct | catatcccat | ataatctaga | actaaatatg | gtgtgtggcc | 360 |
| atatttaaac | acctgagagt | caagcagttg | agactttgat | ttgaagcacc | tcacctctct | 420 |
| ttcaatgcga | acactatcat | atggcattct | tactgaggat | tttgtctaac | c | 471 |

<210> 1884
 <211> 298
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> | 1884 | | | | | |
| ttttttttta | agtaacattt | aatgaatata | catttataaa | agccatcatc | ccttaacatg | 60 |
| gggaaagtgt | acaaaaataa | tgtgaaagtg | taaaaatttt | tctagaatac | aggaaacata | 120 |
| tcagcagtaa | agaagttag | tttaactttt | tttttaaagt | taaaatagtt | tgatctgtt | 180 |
| aaaaggaata | cagttcgccc | aaagcactta | ttttcatctg | ttgtaaactc | attctttcta | 240 |
| ccttaagtaa | actggaggag | tcagctgtgt | taatattggtc | aaattaattt | catagttt | 298 |

<210> 1885
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> n=a,t,g or c

<400> 1885
tttttttttt taggaagaga gaaatcattt aatgtggttaa gccagtaaga ttttaagnct 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntntcanat ccagcttctg 120
aataagctca agaactttta cttctatccc tatggcctat gcccagggga agatgggact 180
taaagggtgt ttgtagaaat catggtagaa aaacttacat acatatgtgt atatatatat 240
agatacaaaa aaaaactata catattttaa aatactgcaa ggttgtggtt tcctgagcag 300
gatggattgg gcagacaaaa tcagcaatgc ccctgctcct gagagaggcc tcgccatccc 360
tgttcntaa gtcttgagtc tgcacggttc tctgagtcac attgggatcc ctgatcatct 420
gcagccgggt gtccctaggag cagccacatg gnngggggcg aggctcagcg gctggggttag 480
gntttctcnt aagggttgna tagggggcct cggttaggcc cctggt 526

<210> 1886
<211> 305
<212> DNA
<213> Homo sapiens

<400> 1886
taacaaacaa aactttatct tcctttaata caaaattaaa tagcaagggg ttttctttgt 60
acagtataaa attagaaatt tacagtacag acatcgatgc agacatactt ttgtacatcc 120
ttaaaagcag ggtccatttc ctttgaaatt tagcaattca ttcagggcat gtgtagcagg 180
aagtttgctt ggtacctctt tgtcaaacat ctgaaagtcc cccagattgg cttcaagggt 240
cctggagctg tggggtggca tgaggacca agaaaggcca cagagcatcc agcccagctg 300
ctgca 305

<210> 1887
<211> 395
<212> DNA
<213> Homo sapiens

<400> 1887
aacagtagac aataaacttt tatttaagaa aactgattca gttgtgttg aaaaaataaa 60
gaaatctgat attaaacgtt ttctaagatc atttgtatag gttcagtgt ttcataagaa 120
gtccaccctg agatgcctgt aaaagtcaaa tcgtaattac acttcaaact ttaatcctaa 180
attattgaca gatagataga tagtgaccaa cttaagggtg atcatatatg tgactaacat 240
ttgggaggaa acaggaaaac agtgggtctc aaacaacaat atcccagtct ccatttgaaa 300
gagcatagat cttcggtaaa tcattttgaa aactatgtgc tttatttccc aaaagatcaa 360
acttaatttt taaaagacac ctttttcaga agtat 395

<210> 1888
<211> 292
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1888
tgtgcttttg acactttatc cgtttttatt taaaaacatg ctaaaaacat ggtgttccat 60
aaagccagga ccaggatgaa ggaacgcaca gatacggcaa tgcaagcaga aagtgcattc 120
gaaaccaaca agcgtgctca ccctgctctc cctcccgtgc tgcccggggg angcaagggt 180
ggcaaggagg gggcaggaag ccccatggc ctcacctcct gagtcccaa tcagggcagg 240
gaggccaggc cccaccctgg actattgact cactgcagtg gggaggagga aa 292

<210> 1889
<211> 385
<212> DNA

<213> Homo sapiens

<400> 1889
 aaatgaaatc tatgaatttt tttattaagg atttgataag ctgatataat gaaaacatgt 60
 aaatgaaaaa catttacact gactgtacga ctagtgtgct aagccattac aatagttttac 120
 tgacataact ggcaagagta acttggaata taacttaatc cagcagaaca aaaacatcct 180
 cagaaaaaca tcctcagtag tactgaatat atctctctca tatatctatc tatctatcta 240
 tctatatata tatatatata tagctttgca caatcaggga gcaaggcacc ataatagaat 300
 gagcatacat ttatgcagaa gaaaataata gcaacaaagc tgcgagaaaa attgtaactt 360
 catcttcact gagctgtgca taatc 385

<210> 1890
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 1890
 ttttatttca aaaattattt tcacacatga ttatcataca gtattacaat gtattatgtg 60
 caaaattcca tttaaaaaat catttacaaa aggtaaaccc gtatgtgctg aggggttctag 120
 ttcaacaaaa gcccaggcta aaaaaggtag aaggtagaaa gccaaccaa tgagatgact 180
 atgcatcttt acacagtaca ataacatggt tttgtaacta cctgtgttac gtggatacaa 240
 gaccctcata gtttgtgcac ctgcaaactg gttttattta acataagttt aatttcactg 300
 cagggttctga taatgtagat tgattttttt gtgcattttc 340

<210> 1891
 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 1891
 ttttagcattt tatectcatt tttaacctac aaagtgtaat gttctcataa agtattttta 60
 taaatatatt aaggcttaag gtaattactg gtttgagtgg cgggtggttt gctttctagc 120
 acactagttt acattcgga tcttaaaaat gaaaacattt gccatcttac agtgagtgat 180
 acatcacatt ggcttgcccc agtttttgtg ttcttttttt tttttttcac tattcaacat 240
 gtcttcgtat tatcttcctt cgtg 264

<210> 1892
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1892
 tgaaagtata aaaatcattt tactttaata caaaatcaca taaagaaagg catgttggct 60
 aaatcaaata ttcactaaat atcagtgaag tcaccactgg aatctcaata gcacattttc 120
 ctgctttctt ttctcccttc tgctaaccat tgaagaccag ggtcatccgt gggagcagat 180
 gagtaggaca cgcgtctgca cgctggaggc cctggggggt gacatgggag caggaagtgg 240
 accccccac cctgcacatc ccttctgttt ttcttgattt cagtctcact ggcccaggga 300
 aatcttcaag ggtgtctagt tctgcagcca gggagaaagt gatgccaaga gaacctcgtc 360
 tcctccctcc tcagtctgct ttgaaggggg aaataaatac acagggccta gtgtgggtctg 420
 gtggtgggca caggggaagg tgggtttttg gccagggcat ctttgggaaa ggttgcctt 480
 cntaggaatt cagga 495

<210> 1893
 <211> 319
 <212> DNA
 <213> Homo sapiens

<400> 1893
 tttttttttt ttttttttcat tttcattatg tagttttttat ttttagacgaa cattattata 60
 aaaaaaaagt tcacctggaa taaaatccat ttaaaaaaaa catagcatca gtatcagtac 120
 acagttaatg aattggctta aacaagatta accacatgac aggtccactt atctgcagga 180
 gctttttcaca ttaagccatt ggagcaaaaa taaaatatgt ttaaacaatgt acagtaggat 240
 agttatatgg aaaaactaga gagtttccat taggggcatg attttcatca aaagtttatg 300
 gtatttttgca tgaaaggaa 319

<210> 1894
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 1894
 gaaattttct aatgaatttt attatcacca gcatctttta aaattaagag gaattctctg 60
 agagtatata taaaaaagaa attaaaggca aatattttgc tgttaaggat ttaaaaaataa 120
 acagaaacat agagtataaa attttcattt cactgtcccc tcatttaaaa ttataagaat 180
 ataagcaaat aacatccaat gtcagaagag attcagggtg accatttgca gtatttagtg 240
 gcaaattagt agcatcatga aaaatttcaa ttcatttaaa aaaatagctt tcatttaaat 300
 aataattacg ttttagcttta tctctgtata taattagact ttcttttggc ttagacaatt 360
 ccattttctc caactgggag ctgtgaagga tcaagtccca ctttcttcat tgatacggca 420
 atatcaaata aat 433

<210> 1895
 <211> 580
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1895
 ggcagttgag gcaggagaca tcaagagagt atttgtgccc tcctcgggtt ttaccttcca 60
 gccgagattc ttccccctctc tacaaccctc tctcctcagc gcttcttctt tcttggtttg 120
 atcctgactg ctgtcatggc gtgccctctg gagaaggccc tggatgtgat ggtgtccacc 180
 ttccacaagt actcgggcaa agaggggtgac aagttcaagc tcaacaagtc agaactaaag 240
 gagctgctga cccgggagct gccagcttc ttggggaaaa ggacagatga agctgcttcc 300
 cagaagctga tgagcaactt ggacagcaac agggacaacg aggtggactt ccaagagtac 360
 tgtgtcttcc tgtcctgcat cgccatgatg tgtaacgaat tctttgaagg cttcccagat 420
 aagcagccca ggaagaaatg aaaactcctc tgatgtggtt ggggggtctg ccagctgggg 480
 ccctccctgt cgccagtggg cacttttttt ttccaccctt ggctccttca gacacgtgct 540
 tgatgctgag caagttcaat aaagattctt ggaagtttan 580

<210> 1896
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 1896
 tatctgcttt ttgtgctag tttcaaactg ccagtatttt tccttttgct tttaaaatag 60
 ttacaatatt tttcatgata gccacagtat tgccacagtt tattataata aagggttttt 120
 atttgattta gcgcattcaa agcttttttc tatcactttt gtgttcagaa tataaccttt 180
 gtgtgctgtg atgttgtgtg tgtgcatgtg tggcgtatat gtgtgttaca ggttaatgcc 240
 ttcttggaat tgtgttaatg ttctcttggt ttattatgcc atcagaatgg taaatgagaa 300
 cactacaact gtagtcagct cacaattttt aaataaagga taccacagtg caaaaaaa 358

<210> 1897
<211> 391
<212> DNA
<213> Homo sapiens

<400> 1897
aattcgggaac gaggcgaaac gtggatgtct acacgaaagt ctgcaaatat gtggactgga 60
tccaggagac gatgaagaac aattagactg gacccacca ccacagccca tcacctcca 120
tttccacttg gtgtttggtt cctgttcact ctgttaataa gaaaccctaa gccaagaccc 180
tctacgaaca ttctttgggc ctcttgact acaggagatg ctgtcactta ataataacc 240
tgggggttcga aatcagtga acctggattc aaattctgcc ttgaaatatt gtgactctgg 300
gaatgacaac acctggtttg ttctctgttg tatccccagc cccaaagaca gctcctggcc 360
atatatcaag gtttcaataa atatttgcta a 391

<210> 1898
<211> 288
<212> DNA
<213> Homo sapiens

<400> 1898
aaaaataaag cctctttatt ggtacctgta agctcaggta caagggtgttc ccacaagcac 60
acaggctggc aaggcctcct gggcaagggg caggcccaga gcctgcgttt cttggcacag 120
acacagagag aaatggaata aattatagtt ctgacactca gggacaatgt agaaattatg 180
atgcaaaaatt aaacattagc aaacaaaggg tataaaaacc ctcaggagcc acccctcgcc 240
aactggcctc agggcatggg cagggtgggc acggttgaag tgcagtgc 288

<210> 1899
<211> 415
<212> DNA
<213> Homo sapiens

<400> 1899
cagttgggtc ttctgcaagg ctgtgatacc tgcaaagata tgtaaaatct aatttttctt 60
tttttttttt tttttgctac agtctttaga ctaagcatgc aagacatacg actaagtgca 120
actgagtga atgttttttt tttaaatttt aatcattccc taaaggtttg aactgaggta 180
tgctactaa cagtttctca tgcgttatc tttactcatg tctagctaca catgctgaga 240
atgaactaat ctaccagatt tttatcctct tttgaatacc aaactaacca gcaaccactc 300
agttagaag cacaggggcc ccttcccatg accctgtctg gctactgcgt gcacatcatg 360
aagctgcctg gaaaagtttt tttttttttt tttttttttt tttttttttt ttttt 415

<210> 1900
<211> 412
<212> DNA
<213> Homo sapiens

<400> 1900
ggagacaatg acaacggcag ccgccatttt attgccaatc agccatgagc cccgccttcc 60
atacacaatg acatttcac cccacaatcg attaacacaa ccatgatagc catgaactcc 120
caactcctcc agctgctagt gctcaacggg agagtcccct ccaggctctgt ctcattgcag 180
agcccatatt ctttctgccc ggccagcagt tactctcctc aatgagcagg cactggtgca 240
gtcttgggtg ggcaccagtc acccctatgg aaatccttga tggatgttac aggacaggat 300
tggatgtgag gggctcttga aatggggctc aagaatcttc atcatgaggc gtttctgcgc 360
ctactgacct gagatacaga gaggaagttc catggacacc aacaccagtc tc 412

<210> 1901
<211> 411
<212> DNA
<213> Homo sapiens

<400> 1901
ttctcccgct tatgaacatg tattttttatt tgccgaatga aaatcgtggg gtgttgcttt 60

gatgaatgga atttcaggct ctccctgtgc acagccggtg ggcaaaggte accttaaagt 120
 actttttctc cctatctgtc tgtaaatccc cagaccggtt gcattttcca gttgcttcct 180
 ggggtgtctgt acatagtttg tctttgtata ggagttagtg tggtagaccgt caatccccta 240
 atctcccagg ttctaattta acagatgatg gctgtatgag gaaaacgatg taaatagaga 300
 atacaaatta aactggatct ctgtggccta ggttttgtac atacagaaac tgcattggtat 360
 ttaaattatt gtttgtctct gatgatgtat gcagtttctt ttaaaacaaa c 411

<210> 1902
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 1902
 cttaaaacca actttccatc cgagaagcct cctcagtagt tactctgtctc atgagacaga 60
 tctgggctcc aagccaggaa aggtgaacag aaaccacaag tgtccagccc tcggtgctgg 120
 agtggacgtt aattgtcagc caccagactg tcccggcacc tacagagaat gtttcacagt 180
 tctggcattt aaatcctttg atagtggatt gtgctgctgt tagccttagt ttcagtgtctt 240
 tacaagtctc gcttattatc tcattgggtat ttaggtatac aaaacagttg attattcacc 300
 acgccaatat ctgggtctct gtatctcatg tagaacataa gaaaatggga actaataggg 360
 aactttattt atagcatgaa aataaa 386

<210> 1903
 <211> 702
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1903
 ttagatttta tgaacaactt ttattaacag aaatcaaact tattgtccaa agtgacaata 60
 tatcaaagaa atacatacca aaacctgctg ccattatagt tgtaaacatt tttattgcat 120
 atttacaatg tgtggaacat tataaggatt tacagtagaa gccaaatttc ccagccctta 180
 aaattttaat aggaaaaatc gaataaacca tacatatattt tgaaaatgag cattagaaac 240
 acacagatga ttataattct atagactaat acaggtgaat gctgtatgta atagaacagc 300
 tgggagaggt aaaagagtgg ataagagagt catcagagtg tgaaaaaact acagctgggt 360
 ggtattgaat aaagagacaa tattgaaaat atttttaaac gctaaaatgt cccgtaaaag 420
 catagctatc ccctatgcna aactgtgagg tagaattttt cccaccccgt tttctgtctt 480
 tctggccacc atttggggga cttccctgtc caggtgactc tctctcacat agctgtacct 540
 ggggcttact agccatacat gctttccact acccctcaa cctcatcaca gaaataacct 600
 ttcnggtcca tgatccngcc taccttacca ctgaaacggg tggtnaagt tagtacctna 660
 ccaaccngtg gnggttcctc nagctaccta tcccnagggt gg 702

<210> 1904
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 1904
 cttcaattga tgcaactcag taatttttat tgcaactgga agacaatata tcacagaaac 60
 tttatggtag gtctggggaa aagtgttatt tacaataaat gatgaaatag tttgtctttg 120
 gcaatatgat tacatacgaa gaatgcaaaa tgcaggtatg gatgccttcc aagcaacacc 180
 aagtccctag agttcggctg atcgcgcctg cctccacact gtttcttttag gtttacatga 240
 acataacaga acatcacgtt ctttctcctt tatgggttctc ctttcttatt catgatattg 300
 gcagtttcat acagaaaata c 321

<210> 1905
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 1905
 gatattctgc cactccagtt tattgaaatg agtaaattta tagctttatt tgcatacaga 60
 aaagtgcattg agaaaataag tatgtacaaa acagtttgtt ggctgatcat gactttcaaa 120
 aattcaacta cctagaaata gttacctcca gtttagcaca tttaggtatt tggacattta 180
 aagtactatt tcaagtctgt gtttatagtg actgagtagg aagctgatag aaaattatgc 240
 catatatgat caactattac cattaacat aaaaccacag gactttctac ttggggctaa 300
 tcaatagagg gtcattgtggc ccctgtcttg tttagcttct gagcatcacc ctcttcttcc 360
 ccctcaaggt aacattggat gtggctgatt aactcccaca agaacctgag cattaag 417

<210> 1906
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 1906
 atattttcat ttttcatcct aatttactga agccattttc tttgggttagc tttagaatta 60
 tctttcttta tactaaccag cttagcatgt aataattctt gcccatgtga ctacaaaaca 120
 ttagatatct ccacaaataa aaacgagatt caccaacaca aatattcctt ctctttaagt 180
 tcacaaaatg caagaagaaa agaaaaatga tgttaggttg tcagtaagga aagcatttct 240
 agatgaga 248

<210> 1907
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 1907
 tttttttttt ttgagatgga gttttgctct tggtgcccag gctagagagc aatggtgcaa 60
 tctcggtgga ctgcaacctc cgtctccggg gttcaagcaa ttcttctgct tcagcctcct 120
 gaacagctgg gattacaggc gtgcgccatc atgcccagct aattttgtat ttttagtaga 180
 gatgggttta tacattttta aagaatggac aatgatgcag atgatttgtg agcattttga 240
 tgagaaagtg gtgattagaa ggatacagca taaatttaat tgtaaacatg cttatctagc 300
 taacctaatc tgtttctgta gaattactgg tcatgggaga ttggatagat gcctaacct 360
 tctcaatttt aagtaatgtg agcaagtctt taagggtatc ataagtataa aatggag 417

<210> 1908
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 1908
 acggattata aaagttatat ttattcacga tgctacattt attgcattcc cttagaaaaa 60
 tggagaactg tttatgtacc caatctgcac atataaaatt ttatacaaat tatgtgtagc 120
 acataaaggc ctctggtaca gctaaaatcc tgacactata atttggttat tcctgcttta 180
 gggctctccag tttatcaggt ctgtccatag aaaacagaaa ctggaattat agtcagtctt 240
 gctaacactt agaaactact ttaaaatata ataaaatttt catttaccct aaaagtccaa 300
 at 302

<210> 1909
 <211> 375
 <212> DNA
 <213> Homo sapiens

<400> 1909
 ttttctgtga ataggtttat taagaccacc taggagaacc tctttggcaa ctaccacaaa 60

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ttctaggcca | tttaaaatcc | aggccaagtt | catatcttgc | ctccatgatc | accattacaa | 120 |
| caaccacagg | tcacacagta | ttacagaaca | aaagcatggt | cactttatct | tacccaaatg | 180 |
| caaatcggtt | ttcacaacca | agactttttt | ctttcctaca | atgttacaaa | tgatgtatcc | 240 |
| aagtcgcgact | gtaatttgga | gttaaacagg | gatcatagaa | ccaaggaatt | atctctgaag | 300 |
| ctgctctttg | ggccactgtg | ccaccccaac | agctctatcc | tggtgttctt | tttttaaatt | 360 |
| aaaaaatcat | taaaa | | | | | 375 |

<210> 1910
 <211> 221
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1910 | aagggttgaa | catcaaattt | taatcttgaa | accttttatc | cagtcctcaa | attattaaca | 60 |
| | tgaaaaggag | tgataaattg | caattttatc | attaccatat | cactgtgtaa | caagcccttg | 120 |
| | ttacaaaatc | tccctctact | gtctgcaaaa | aaccaataga | aaaccctac | attatattac | 180 |
| | ctaatanct | attaacagat | gaaattttta | ccaactttat | a | | 221 |

<210> 1911
 <211> 206
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1911 | gctgccacca | ccatgaaaga | gtggccacca | catctttatt | gcatactcag | gtgaataact | 60 |
| | tattatacaa | tgaacactcc | tccattagga | gaccatgccc | acttacagaa | tgcagccgta | 120 |
| | aatgcggtaa | atctattttac | agaggttggg | gtgcaagatg | agagaagtat | cagccccagg | 180 |
| | aatttgaagt | gaaaatgatc | tacaaa | | | | 206 |

<210> 1912
 <211> 426
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1912 | ggtggcaata | gagagagtta | tgctacaatt | atctcttggg | ttccacttgc | aatgggtta | 60 |
| | taagtccaaa | aacagctgtc | agaacctcga | gagcagaaca | tgagaaactc | agagctctgg | 120 |
| | accgaaagca | gaaagtgtgc | cgggaaaaaa | aaagacaaca | ttattaccat | cgattcagtg | 180 |
| | cctggataaa | gaggaaagct | tacttgttta | atggcagcca | catgcacgaa | gatgctaaga | 240 |
| | agaaaaagaa | ttccaaatcc | tcaacttttg | aggtttcggc | tctccaattt | aactctttgg | 300 |
| | caacaggaaa | cagggttttg | aagttcaagg | ttcactccct | atatgtgatt | ataggaattg | 360 |
| | ttgtggaaat | ggattaacat | acccgtctat | gcctaaaaga | taataaaaact | gaaatatgtc | 420 |
| | ttcaca | | | | | | 426 |

<210> 1913
 <211> 329
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1913 | ttctatatca | tatctttatt | gactccttaa | taactactac | aagctcactt | gtgaatcaca | 60 |
| | cctgatgtac | aataaataag | tcacaattct | gaaccacatc | tatagaaact | tgaattccta | 120 |
| | gtaaatataa | taattgagga | tcttaaagct | caacaagtca | ggccttcag | tttttcagat | 180 |
| | gaggaaatta | aggcctaaag | atatgaagtg | acttacccca | aagtaaaaaga | tctagttagt | 240 |
| | aataggagct | gagattgaga | tccatgactt | ttaaaacca | gattcatgct | ctctccacta | 300 |
| | aaccatgtga | tcattctagg | tagtcaaca | | | | 329 |

06944-4800

[illegible]

| | | | | | | | | | |
|------------|------------|------------|------------|------------|-------------|--|--|--|-----|
| <400> | 1915 | | | | | | | | |
| taacttcaca | ggaaatttat | tattttttga | aagggctgag | ggagacttta | caaggggtctg | | | | 60 |
| aagctggtaa | ctagaaagaa | agataaataa | aatacgaagc | cagtatgttg | tggcaatatt | | | | 120 |
| cgagaaaaca | cactgaaaaa | aatctttaca | gtttaaaact | gcttcacttt | atacataatt | | | | 180 |
| acaaatgaat | atacagcatc | tgggttttaa | cccgtctttt | ttatttaata | ggatttagca | | | | 240 |
| cacaaatgtc | catagagcat | ttgcaaacaa | gca | | | | | | 273 |

| <400> 1916 | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| tttttttttt | tttttttttt | ttttggggtt | gatgatttta | tttctccctt | cccataacca | 60 |
| gtaaaaaaaaa | aaaaaaaaaat | tacaatcagg | cctggtggtg | gtcacgcct | gtgatctcag | 120 |
| cactttggga | ggctgaggtg | ggcggattgc | ttgatctcag | gagtttgaga | ccagcctgag | 180 |
| caacacagcg | agacctggtc | tcaaaattat | tatacaatca | atgcaagtac | aaagattcaa | 240 |
| tttttaaaaa | tcaccagagt | acaaagacgg | ccacagcccc | tgcccggggt | taacttacat | 300 |
| atatacagag | tgggcggggc | aggcatggcc | acagagggtg | tattacaaaa | tatacaaagt | 360 |
| qgtttctttc | tttacatttc | atagaagaag | cctgcctcat | ttccaaatg | | 409 |

```
<220>
<221> misc feature
<223> n=a,t,g or c
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976

<210> 1918
 <211> 4043
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 1918 | cctgccccgc | tgtcagctgc | ggcccccggc | gccgggcggg | ggtggccgcg | 60 |
| cgaagcgggt | gagaggcgaa | aggggcgggg | ccgccgccag | ccgctgcggg | caaggctgaa | 120 |
| accattggcg | tgggcagccg | gccagggaag | cacgggccag | gcggctacat | tcggccccggc | 180 |
| caggcggagg | gcgccccctga | aagtgtgcat | cgtgggctcg | gggaactggg | gttcagctgt | 240 |
| catggcagcg | attggttaata | acgtcaagaa | acttcagaaa | tttgccctcca | cagtcaagat | 300 |
| tgcaaaaata | gaagaaacag | tgaatggcag | aaaactgaca | gacatcataa | ataatgacca | 360 |
| gtgggtcttt | aaatatcttc | ctggacacaa | gctgccagaa | aatgtggttg | ccatgtcaaa | 420 |
| tgaaaatgta | gctgtgcagg | atgcagacct | gctgggtgtt | gtcattcccc | accagttcat | 480 |
| tcttagcgag | tgtgatgaga | tactggggag | agtgcccaag | aaagcgtg | gaatcaccct | 540 |
| tcacagaatc | atagacgagg | gccccgaggg | gctgaaactc | atttctgaca | tcacccgtga | 600 |
| catcaagggc | gtgtgctgat | gggagccaac | attgccaatg | aggtggctgc | | 660 |
| gaagatgggt | ccatcggcag | caaagtaatg | gagaacggcc | ttctcttcaa | | 720 |
| agagaagttc | cagactccaa | attttcgaat | tacgggtggt | gatgatgcag | acactgttga | 780 |
| agaacttctg | gcgcttaaga | acatcgtagc | tgtgggagct | gggttctgcg | acggcctccg | 840 |
| actctgtggt | cggccgtcat | ccgcctggga | ctcatggaaa | tgattgcttt | | 900 |
| ctgtggagac | gccaagtgtc | tacagccacc | ttcctagaga | gctgcggggg | | 960 |
| tgccaggatc | ggttacggagg | gcggaaccgc | aggggtggccg | aggccttcgc | | 1020 |
| ggccgacctg | aagaccattg | aagagttgga | gaaggagatg | ctgaatgggc | aaaagctcca | 1080 |
| cagaactggg | acttctgctg | aagtgtaccg | catcctcaaa | cagaagggac | tactggacaa | 1140 |
| aggaccgcag | tttactgcag | tgtatcagat | ctgctacgaa | agcagaccag | ttcaagagat | 1200 |
| gtttccattg | cttcagagcc | atccagagca | tacataaagt | gaatcatgca | acgtgttggg | 1260 |
| gttgtcttgt | cctttctgat | caatcttttg | ggttcacgtg | gaaaccagga | cttggaaca | 1320 |
| ggaagtcttg | ctgtaatctc | atcacggata | tgtatgaatt | tttacagggt | cgtttttgaa | 1380 |
| tgatgtttga | cagttcatta | gcaaagatgt | actgggcagt | aactaaacac | acatgcaaac | 1440 |
| ttgtgagagg | tggtttattc | ctcattctgt | ggatgtttct | atgagccaaa | atltgatgtc | 1500 |
| atgtgaatgg | aattgcttat | gaaatttcca | cacaatcgta | gcttataaga | ttggaacgat | 1560 |
| tttttttcaa | tatttttaggt | gtaattcata | tgtatttgag | tggaggattt | tttttctcat | 1620 |
| ctcagccaaa | ttaaatttta | accagcatta | acatggtaga | gtggaggagt | gagtgtgttc | 1680 |
| ttttctagtg | tttaaacact | atctcaaagc | cagcataatt | aactactttg | | 1740 |
| aaagatcaac | gacctttggt | tttttaacaa | tcaggcattt | ttaattagat | aatccactca | 1800 |
| attgtgggct | cctcactgca | gttgtctgca | tttttagcct | cttttctctt | cgttagttgt | 1860 |
| tgtatttccc | ctttgtcaag | gctcagagg | aacaagacag | aaaattcatc | tgggattttc | 1920 |
| cagaatatgc | ttctgattaa | cagacacttg | tatgatgctt | taggctagtt | | 1980 |
| ctgctgtggc | ttatctttaa | acatcacaga | tccactgggg | ggtgcaaggg | | 2040 |
| agtgcatttt | tagatgcagt | cactcctcct | ggtcacctag | tgagcagggg | | 2100 |
| gctactgtta | agtgccaagg | tgcatgacct | tctgagaagt | cactgggctg | | 2160 |
| cagagccagg | gttggtgtaa | tgccatgtgc | agcctttcct | gaggccatag | | 2220 |
| atltgacctc | atctatgcag | gccatcctct | caacaggtgc | cactccaagg | | 2280 |
| gagggcttcc | gtgcagcagc | atcagcttca | cttgtggggg | ggtgggggaa | ggggcggtct | 2340 |
| gcggtcctcg | gttcccagg | tcccaccctg | gacttctgaa | ggggtgtggc | atctgtgttt | 2400 |
| cagaaatgca | | | | | | |

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| ctgatgctta | ctacaatatg | tgaaccacta | ctttagaaaa | tctgctttaa | cttgggtattc | 2460 |
| ctctaattgt | gttccctagg | aaatgactgt | cccaagagcc | agtgattatt | ccagggtgttc | 2520 |
| cctggaaagg | tcaagtgagt | ctgggaaaca | ctatgtctgt | acacctcttg | aagggtgtcga | 2580 |
| atgtatgttt | atacatcagt | ggaaccatt | tttctagcct | agcaagtccc | aaacacatta | 2640 |
| cactgaagag | attttggtga | ggaaacttgc | tggagttttc | agggaacact | gttctaggct | 2700 |
| taggtgacct | taggatcact | caagtagacc | cttcactccc | tgcgagaaat | taggatgaat | 2760 |
| aactacctgt | ggcattgttg | gttctgaact | tttacagttc | aggcctgctg | tgaatctttg | 2820 |
| atgaagcttt | aagggtgacac | tgttgtagaa | gatgtcagct | ttgctgaaac | gcacattacc | 2880 |
| tgggaataagt | gctttaattg | tagaattaga | atgggattta | ctgtactgtt | ttaaatgaga | 2940 |
| ttggccttcag | aatccattac | agttacctta | catagcactt | gatacgtgtt | aatgaacat | 3000 |
| atgaatgtaa | tttatatatt | cctagaattt | aagttacttt | gtgagatttg | ggcctgtccc | 3060 |
| tcaatgccag | tttaggattt | ctttttttct | ataccttgaa | atgattataa | aatagatttt | 3120 |
| catgggaatt | ttaaaaactc | tatccaaaac | atttttggag | catttttaaag | ccccatacac | 3180 |
| agaagtatac | gaaagcacac | aaaacactcc | aagtttcagc | agtttttagcg | ccaccattaa | 3240 |
| cccactttgc | ttgtctcatg | aaaaatcttt | gttaaagttt | gtacacaggt | aacaaaaagt | 3300 |
| tactttaaaa | gatataataa | gggctgtaag | ctaattgtgg | tgtctagtaa | gtagcataat | 3360 |
| gagatgtgag | gagttggaac | tttgcggtgt | ttgcgtattt | tcactctgcat | tcagcttctt | 3420 |
| actctgggtt | tgtactcgag | tgttatttct | ttacaaatgc | ccttgtaatt | accactctga | 3480 |
| agtctgctga | ctgtgtctct | tgaacatact | taggatattc | tgcacattat | ggaaaaaggt | 3540 |
| aaattttaga | agtttctgct | ctactaactg | tagatatatta | tgactctgcg | agttatctat | 3600 |
| ttttataacc | acctgtggtc | cattgttcat | tttaattcac | atttcttatg | aagtatggta | 3660 |
| acagggaggg | agacacctag | attagcagct | caatttgtac | tacttcagcc | aatctgtgaa | 3720 |
| tgtaaaaact | acactgttgc | cttgctagga | tccaccctcc | tataatatgg | aacaaatatt | 3780 |
| tgaatgaaat | ccaccctagg | agacggagtc | aaactaaact | tgtgggtttt | catttaactt | 3840 |
| ttgactacag | catggcccca | tggcatccac | accaagaggg | tgttgatgat | aggtgcccgt | 3900 |
| gtgcaaaggg | aacttttagtt | tttccactgg | ttcttatctg | ctagcctttt | acatacatgt | 3960 |
| gtactatatt | tgtttataga | ctgtaggtgg | atatataatt | taaaagcttg | atttaataaa | 4020 |
| catttaaccc | cctaaacttg | ggg | | | | 4043 |

<210> 1919
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|-------------|------------|------------|------------|-----|
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| | ttaaaacatt | tcgttagtgg | atcacaaatg | cttctaaaac | tgcctttcta | gtaaaggcca | 120 |
| | tcagagaggt | aataactaac | tgtgcatttg | ccaaataaga | atatgaattg | tataaaagct | 180 |
| | catttccaat | cctagatcaa | atggcaaaag | ttctacaaag | ttggtttcca | tgtttgtata | 240 |
| | aaagctccga | ctgattttat | gtattttgct | atgaaattac | ctttgggtct | tataatcagt | 300 |
| | atacctctac | tcaggaatgt | gcaaattgatt | ttatacagca | cgacgctagt | accgctctgt | 360 |
| | atgacagtaa | ggttttt | | | | | 377 |

<210> 1920
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 1920
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 ttctaaaata aatactatta aaatagagct tcaaaataaa tattctatac agagaaaacc 180
 tgtggcaact ttgtggtggg gtggaaatgg gctacagtga gggggaaatg aagttgggat 240
 gtggcggggg gggagcctcg agcttttctg tttgtaacat gaaaccaagc tgtgggacag 300
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<210> 1921
 <211> 7869
 <212> DNA
 <213> Homo sapiens

<400> 1921
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 ttcttacaac tttatgacga gacccatgtg tgggtgctatt gagaaattca ttgggaagtt 180
 ggaagacatt tcaaacaaca ggttggtttg gtttctatag tacaattggg gtggcattct 240
 gttttgtgaa aggaggaagg acttaggcca gaaaactcat atgctatggt taactggttc 300
 ccagcctccg agaatcttgt tttccatggt gtaaaactta ctacgcatca ggataaggga 360
 taacgactct atggatatac agaatccttc accatggtaa aactcgcaaa cccgctttat 420
 actgagtgga ttttgagggc catcaaaaaa gtgaaaaagc agaaacagcg tccttcagaa 480
 gaaaggatat gcaatgctgt gtcttcatcc catggcttgg atcgtaaaac tgttttagaa 540
 caattggagt tgagtgttaa agatggaaca attttaaaag tctcaaataa aggactcaat 600
 tcctataaag atcctgataa tcctgggcga atagcacttc ctaagcctcg gaaccatgga 660
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 ttggcagagt ctggtggctc aactttgaaa agcattgaac gttttttgaa aggtcagaag 780
 gatgtgtctg cattattcgg aggcagtgtc gcctctggct ttcaccagca gttacgattg 840
 gctatcaaac gtgccattgg ccacggcaga ctccctaaag atggacctct ttatcggtct 900
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 cgctatacta atccaatagg acgtccaaaa aacagggttaa agaaacaaaa cacgggtatca 1440
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 ctttccagcc aatcagcatc atcatcatca gaagaaggat atttagagcg gatagatggc 1560
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| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|------|
| agaactattc | tgcagcagca | catgaagaaa | tgtggttggt | tccatcctcc | tgccaatgag | 2100 |
| atttacagaa | agaataatat | ttctgtcttt | gaggttgatg | ggaatgtgag | taccatttat | 2160 |
| tgtcaaaacc | tgtgtctttt | ggcaaagtgt | tttcttgacc | acaaaaccct | ctattacgat | 2220 |
| gtggagccat | ttctttttta | tgtactaaca | cagaatgatg | tcaagggctg | ccaccttggt | 2280 |
| ggctactttt | ctaaggaaaa | gcactgccaa | cagaagtaca | atgtttcctg | tataatgatt | 2340 |
| cttcctcaat | accagcgtaa | gggctatggc | aggtttctca | tcgatttcag | ttatttgтта | 2400 |
| tcaaagcgtg | aaggccaagc | agggctctcca | gagaaaccgt | tatctgatct | gggtcgtctt | 2460 |
| tcctacatgg | catattggaa | aagtgtata | ttggagtgcc | tttatcacca | aaatgacaag | 2520 |
| cagatcagca | ttaagaagtt | aagcaagttg | actggaatct | gccctcaaga | catcacttcc | 2580 |
| acactccacc | acctacgaat | gctggacttc | cgtagtgacc | aatttgatg | tatccgccgg | 2640 |
| gaaaaactta | tccaggatca | catggcaaa | cttcagctga | atttgcgacc | tgtagatgta | 2700 |
| gatccagaat | gtttgcgctg | gactccagtc | atagtgtcca | actctgtggt | ctcagaggag | 2760 |
| gaagaagagg | aggctgagga | aggagaaaac | gaagagccac | agtgccagga | aagagaatta | 2820 |
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| gtccttcctc | atgatagtct | tcctgcaaat | agccagccat | ctcggagggg | ccgctggggg | 3000 |
| aggaagaaca | gaaaaaccca | ggaacgtttt | ggtgataaag | attctaaact | gctcttgga | 3060 |
| gagacgtctt | cagctcctca | ggaacaatat | ggagaatgtg | gggagaaatc | agaagccacc | 3120 |
| caggaacaat | acactgaaag | tgaagaacag | ctggtggctt | ctgaggagca | gccaagccag | 3180 |
| gacgggaaac | ctgaccttcc | caagagaaga | ctcagtgagg | gggttgagcc | ctggcgagga | 3240 |
| cagctcaaga | aaagccctga | ggctctgaag | tgcagattaa | cagaaggaag | tgagaggctg | 3300 |
| ccccgtcgct | acagtgaggg | tgacagggct | gtcctcaggg | gcttcagtga | gagcagcgag | 3360 |
| gaggaggagg | agccggaaag | ccctcggctc | agctcgccac | caattctcac | aaagcccacg | 3420 |
| ctgaagcgaa | agaaaccatt | tctccaccga | aggaggagag | tccgaaagcg | caaacaccac | 3480 |
| aatagcagtg | tagtcacaga | aactatttct | gagaccactg | aagtgttaga | tgaacctttt | 3540 |
| gaagattctg | actccgagag | gccaatgcca | agattagaac | ccacatttga | gatcgatgaa | 3600 |
| gaagaggagg | aagaggatga | aaatgaactt | ttccctagag | aatacttccg | tcgtttgtct | 3660 |
| tcgcaggatg | tactcaggtg | tcagtctctt | tctaagagga | agtctaaaga | tgaagaagaa | 3720 |
| gatgaagagt | cagatgatgc | tgatgacact | cctatcttaa | agccagtatc | tcttttgcca | 3780 |
| aaacgtgatg | tgaagaattc | tcctcttgag | ccagatacat | ccacaccttt | gaaaaagaaa | 3840 |
| aagggatggc | ccaaaggcaa | gagccgcaaa | ccaatccact | ggaagaaaag | acctggtcga | 3900 |
| aaaccaggat | ttaagttgag | tcgggaaatc | atgccagttt | ctactcaagc | atgcgtcatt | 3960 |
| gagcccatcg | tttccattcc | taaagctgga | cgtaaaccce | agatccagga | gagtgaagaa | 4020 |
| actgttgagc | caaaagaaga | catgccccta | cccaggagga | ggaaggagga | ggaggagatg | 4080 |
| caagcagagg | cagaagaggc | tgaagagggt | gaggaagagg | atgcagccag | cagtgaagtc | 4140 |
| ccagcagcct | ctccagcaga | cagcagcaat | agtcctgaga | ccgaaaccaa | ggagcctgag | 4200 |
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| | ctgcccctac | ctctcccccg | aaaacccccct | atttagccaa | aggaaggagg | tcagggggaac | 180 |
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 ttagaagacc tgcgagtaaa actgaagaaa gaaggatatt ctaatatctc ttatatgtt 300
 gttaatcatc aaggaatctc ttctcgatta aaatacacac atcttaagaa taaggtttca 360
 gagcatattc ctgtttatca acaagaagaa aaccaaacag atgtctggac tcttttaaat 420
 ggaagcaaag atgacttcct catatatgat agatgtggcc gtcttgata tcatcttggg 480
 ttgccttttt ccttcctaac tttcccatat gtagaagaag ccattaagat tgcttactgt 540
 gaaaagaaat gtggaaactg ctctctcacg actctcaaag atgaagactt ttgtaaactg 600
 gtatcttttg ctactgtgga taaaacagtt gaaactccat cgcctcatta ccatcatgag 660
 catcatcaca atcatggaca tcagcacctt ggcagcagtg agctttcaga gaatcagcaa 720
 ccaggagcac caaatgctcc tactcatcct gctcctccag gccttcatca ccaccataag 780
 cacaagggtc agcataggca gggtcaccca gagaaccgag atatgccagc aagtgaagat 840
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 ttgcccacag attcagagtt ggctcctagg agctgatgct gccattgtcg acatctgata 960
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 agctgacagg gacttcgggc agaggagaa ataactgaat cttgtcagtg acgtttgcct 1080
 ccagctgcct gacaaataag tcagcagctt ataccacag aagccagtg cagttgacgc 1140
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 actcccacat ttagtctaga cacaatttca tttccagcat ttttataaac taccaaatta 1260
 gtgaaccaa aatagaaatt agatttgtgc aaacatggag aaatctactg aattggcttc 1320
 cagattttta attttatgtc atagaaatat tgactcaaac catatttttt atgatggagc 1380
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 tatttgcttt aatgagaata gaaacgtaaa ctatgaccta ggggttttct gttggataat 1500
 tagcagttta gaatggagga agaacaacaa agacatgctt tccatttttt cctttactta 1560
 tctctcaaaa caatattact ttgtcttttc aatcttctac ttttaactaa taaaataagt 1620
 ggatttttga ttttaagatc cagaaatact taacacgtga atattttgct aaaaaagcat 1680
 atataactat tttaaatct catttatctt ttgtatatct aagactcatc ctgattttta 1740
 ctatcacaca tgaataaagg cctttgtatc tttctttctc taatgttgta tcatactctt 1800
 ctaaaacttg agtggctgtc ttaaaagata taaggggaaa gataatattg tctgtctcta 1860
 tattgcttag taagtatttc catagtcaat gatggtttaa taggtaaacc aaaccctata 1920
 aacctgacct cctttatggg taatactatt aagcaagaat gcagtacaga attggataca 1980
 gtacggattt gtccaaataa attcaataaa aaccttaaaa aaaaaaaaaa aaaaaaaa 2038

<210> 1925
 <211> 478
 <212> DNA
 <213> Homo sapiens

<400> 1925
 cactgggtgga tgtgaccaag gtatcaatga gctcacaaaa tgatggcttc ttcgccgtcc 60

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| acctcaaaga | gggctcagaa | gcagctagta | aaggagactt | tctcttcagc | agtgatcacc | 120 |
| tgattgaaat | ggccaccaag | ctctatcgca | caactctcag | ccaaaccaa | cagaagctca | 180 |
| atattgagat | ttccgatgag | ttcctggtag | agttcagaca | ggacaaagta | tgtgtgaagt | 240 |
| ttattcaggg | aaaccagaaa | aatgggagtg | tccaacatg | taaacgaaa | aacaaccgtc | 300 |
| tccttgaagt | tgctgtccct | taactggcga | ctcctctcta | ctttcatgga | cttgttcctt | 360 |
| tgtaatagtg | caatttggtt | ttgttttatt | tggggttcat | tgtatgtttg | ggaatcacca | 420 |
| aaggctttta | gagttctttg | gcaaaaataa | aatatttgac | taatcaaaaa | aaaaaaaa | 478 |

<210> 1926
 <211> 385
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|-------------|-------------|-----|
| <400> 1926 | tttgcaaaaa | caggataaca | acgtcagata | gcactttaat | atactagaag | accaaattgga | 60 |
| | actaatttta | tttcatacat | atattttaca | gtccagtaga | caagatatat | tgtattttctc | 120 |
| | tgctagtaaa | gtcatattct | ctccaaatat | gtagacaaga | ggcttaattgt | attataaaag | 180 |
| | tattatgaag | agacattaag | attgatgcaa | actcaaaaa | cacactcaca | cacaagactt | 240 |
| | ttttttctgc | catctttcac | cctctaactc | gcgatggctc | cacaaggttg | acctgttacg | 300 |
| | gctgttccca | gacttgatca | ccagctggaa | tacagtgcgt | cacatccagg | aaacgtgcac | 360 |
| | cttacatccg | tcagttattg | aatac | | | | 385 |

<210> 1927
 <211> 466
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|-----|
| <400> 1927 | ttttttctca | agccgttttt | attacactta | gtgtattaag | acaagtacaa | aataaccttg | 60 |
| | taattaagat | actgtatcag | tcaaaaaaga | agtcactatt | gtatgaagag | atttacaat | 120 |
| | gactaaaata | tacaggctgt | gacagaatta | acagtttgaa | agagggttgc | ttttttcttt | 180 |
| | tagaaatgct | aaattttctt | aacaagacaa | aaatacagtg | ctctaaatat | gcattaccat | 240 |
| | gaaaacgtta | aagaaaagca | gtcttaacac | ttaactacta | ttaacagcct | ttgccaacac | 300 |
| | atgcctgcct | actccctttc | ctaacttta | agaactgttt | cctctaagga | atactagtgc | 360 |
| | agcataacc | ttaaataatt | tcattttatt | ttaaagttac | aacctacaga | gaaattaaca | 420 |
| | tcttgtcaat | ctaataacag | tggcaaccat | tcttcacatg | cacttc | | 466 |

<210> 1928
 <211> 260
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|-------------|------------|------------|------------|------------|-----|
| <400> 1928 | cacattaaat | tattttattga | acaaattgaa | gataatgaca | tatgttttta | ttacaaagtc | 60 |
| | ttccatcatc | ttatatcatt | gacacatatt | atgagacctg | catttgaaga | gtgaatagaa | 120 |
| | ataagaaaat | gttttcccaa | ccccacaaa | acagaaaaaa | atatattaat | tttataatta | 180 |
| | tcttataaag | ccaaaagttt | tatgaattat | acttttttta | ttagttaaaa | atgacagcat | 240 |
| | aactaagggt | aattttttatt | | | | | 260 |

<210> 1929
 <211> 364
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|----|
| <400> 1929 | taatggctca | acataattta | ttttttatgt | taaaatgtac | agagttcttt | tgaaagtact | 60 |
|------------|------------|------------|------------|------------|------------|------------|----|

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| tgctagaaag | gggaaaaaaa | ggtattacat | acanggggng | gnaggagggc | cggctggcca | 120 |
| gtgngcgcgt | gacatggaga | gatacaaagg | catctaggca | ccccttcccc | ttagcttaca | 180 |
| agtcaccatg | aacaaagtac | aaagagggtta | caaaacagga | aaagcaaata | ttaaagagaca | 240 |
| ggntagacgt | gggcttcctt | tgtacatgcg | gcttttagag | gcacatgggn | gctctntttc | 300 |
| acacacgcta | gngatctctt | taaagagaat | ttatctttct | taaaatagtt | tttaatatct | 360 |
| taca | | | | | | 364 |

<210> 1930
 <211> 269
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1930 | | | | | | 60 |
| aatgtgtctt | aatctatccc | tccagctggc | agttactgtt | tttttaatac | cctgaagttg | |
| tctgttagga | gacagaaatt | ctttgctgtc | tgtatccctt | ggagtaagaa | ggtagtggca | 120 |
| tgggtggagt | gtgtgttctt | tctccaaatc | tattatgatg | tttattaaac | acttctgtag | 180 |
| caaagatggg | ggtagttctt | ttgttactga | agttgccctt | caccatggct | atttgaaagg | 240 |
| gagatgtact | tggacgtttc | tgaaactct | | | | 269 |

<210> 1931
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1931 | | | | | | 60 |
| gcaaaatgca | gtgtacctta | aaagtgtctc | acctagaagg | cctctacctg | taatcacatt | |
| aatttttcta | aagacaattt | gggtgtttga | agataaatgt | cattagtcta | tgataatagc | 120 |
| atcataggac | aattagccat | tttagacttg | accatatttn | ctcttttttag | catatagcca | 180 |
| tcttgatatt | taggtgggag | actactccaa | tggagcaaca | gtttcatttt | acatgattgg | 240 |
| atttagaaat | ttacaaattt | taaactc | | | | 267 |

<210> 1932
 <211> 332
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| <400> 1932 | | | | | | 60 |
| gaatgaaaga | atccagcaga | tattttattaa | gcaagatgaa | agtgaatta | caaacacagg | |
| tcaactttta | aactcagcac | tctgttgagg | tggagggtgca | cggtccttca | tcataggcag | 120 |
| cctatgcgag | atgcatctta | ggaagggagc | tttcgctgct | cagaaatcaa | agctccatcg | 180 |
| gaggtgtcct | actggaggca | tcagacaaca | agctaaatga | cgtaggggct | acacaacaca | 240 |
| aaggggaaag | ttgacaacaa | ttcaggggct | ttgagtagtc | aagacaatta | gcttagtact | 300 |
| tcaggtcaat | aatgctaca | atttatgggc | aa | | | 332 |

<210> 1933
 <211> 380
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 1933 | | | | | | 60 |
| tgctcttaac | cacgtttatt | gagaggggcc | gggggaaggg | gatggacggt | cctccccgcg | |
| gcggggtttt | cagccctcgc | gggtgggcag | cgtcttgtcc | tcaggtgtag | atgctccagt | 120 |
| ctcngctcag | ccaaacactg | tcagggcccc | cagcagggcc | ttcagggcct | cacggcccca | 180 |

cggcctgggg acccagctca gccacacact tctgggagcc ctctatgagg tgggttcacgg 240
 ggatgcccag gctgctcagc aggagcttca nngngttgagg gtgccgaggg gggttgccag 300
 ggtccccggc cgggctccgc cgccgactcc agcgcanncn aggctgggca cagnttggcg 360
 agcccactaa gaaacacacg 380

<210> 1934
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

<400> 1934
 attggaatat tttatttaca ttttatattt aaagagaatc aatacaaatt gggacatatt 60
 tacagcattt caaatcagtg tacaagaatg caatggtttc atccattcag caaacaaaaa 120
 tacatgtctg ttttattttt gcctaaattc tgctataatt tgaacaaaat tctaaaacaa 180
 aagccacaca gagtacaaat aaagtgcatt tttaaatagc tctatttaac tttggnggat 240
 gaaacttcaa actntatatt aaggggcc 268

<210> 1935
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 1935
 aaggttttta aagcagbatt tattgattga aaataaatgt gtagataggc tctcagtatg 60
 gaatccatgt tattttttta tgmagtacat gaagactcct tagatcttcc accatgtatc 120
 tbsgtgtgtg cttataacam ccaccatatt caaatggvvg ggaattttca acattttact 180
 gaaaaaaaaa tgagaaattc tycccttcagc agctctgcat agtttgacaa acttt 235

<210> 1936
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 1936
 aaatcaatag aaattaggta gatccattta ttttyyaaat acaagtataa ttyysgmagg 60
 ggtatttsac aaattcagca ttaactgcca actctataga catgttttaa caaaaagcaa 120
 aacaaaacaa aacaaaaaaa caaaacaagg catttactct tggccctttc agtacaggcg 180
 aagtgttcta tygcatcaca agtgctagts atgcagtaac agatccaagg gcataatatt 240

<210> 1937
 <211> 1581
 <212> DNA
 <213> Homo sapiens

<400> 1937
 ataactaaat tacattttct tgggtcttttg actatgaaat agtttaccct agcaacatga 60
 aaaacaagag acctaagcta ttagaagaaa tgcagttcta tgtatcttgt gtgtatagtt 120
 tttccctggg tggttttcaa cgaccagtga ctcccttagct ggtttcctca gctgctagca 180
 cttgctctgg gtacttgccc tcaacacgct catctgcaac aatgtgtgcc taggaaataa 240
 actcaactta ctactcacc aaccaaattg taatttttta aacgcagcac acactgggtg 300
 gattccaaag tcatgattat gctttactat gcactctgta ctattcagac cactactctc 360
 attcattact gcaattaact gcacacataa ctatttttta ttgctaatta tacaccactg 420
 atttccactt taaaaaaaca ttagcatttg tctctaatta aatatttact gcttgtgttt 480
 tacagaccgc atatcaggtt cttctttaga ctgggcttat gacctgggca tcaaacacac 540
 atttgccttt gagctccgag ataaaggcaa atttggtttt ctcttccag aatccccgat 600

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|------------|------|
| aaagccaacg | tgcagagaga | ccatgctagc | tgtcaaattt | attgccaaagt | atatcctcaa | 660 |
| gcatacttcc | taaagaactg | ccctctgttt | ggaataagcc | aattaatcct | tttttgtgcc | 720 |
| tttcatcaga | aagtcaatct | tcagttatcc | ccaaatgcag | cttctatttc | acctgaatcc | 780 |
| ttctcttgct | catttaagtc | ccatgttact | gctgtttgct | tttacttact | ttcagtagca | 840 |
| ccataacgaa | gtagcttta | gtgaaacctt | ttaactacct | ttctttgctc | caagtgaagt | 900 |
| ttggacccag | cagaaagcat | tattttgaaa | ggtgatatac | agtggggcac | agaaaacaaa | 960 |
| tgaaaaccct | cagttttctca | cagattttca | ccatgtggct | tcatcaattt | atgtgcta | 1020 |
| acaataaaat | aaaatgcact | taatgcttta | aaattcatct | ttttatgata | aacaatattc | 1080 |
| tctgtatttc | tctatagcat | taataatcaa | tattaatgcc | attcattcag | tctgttaata | 1140 |
| agaaaataata | tcttcaattt | tcaaaaacat | aatttgccca | tctttttctg | atagaagtag | 1200 |
| acattgttta | tatcttcaaa | aaagcaaaaag | gatgtcctag | caggaaataa | agtgggtcat | 1260 |
| atagagatga | atctcagtc | tttaataaac | cgatccagtt | ctcatcagca | taatgtacat | 1320 |
| taaattcaaa | atagttta | ttaacctgcc | ataatcagaa | gaaaccacct | gctaaaacat | 1380 |
| ctgtttgccg | gtacagacac | agacaagaca | gtctggtcag | ctgtgacccc | tgccctccta | 1440 |
| atggatagaa | aggaaacctg | gaaacatact | gtaagttgag | gacggaaagt | catgttgacc | 1500 |
| aaaggcaatc | agggttaactt | gctgcatttg | taccatttat | actcctatta | tttaagatag | 1560 |
| tattattgga | tagcttctcc | c | | | | 1581 |

<210> 1938
 <211> 4508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|-------------|------------|------------|------------|------|
| <400> 1938 | gacccaagta | cgtcagggct | ccacgggtact | gttttctttc | ctcctaggaa | gatgggattt | 60 |
| | ccttttgtcc | aagcactgaa | ggaaccgacc | caaaccagtc | ttgggggctc | tgataagatt | 120 |
| | tcagactctg | gacccttttc | catcaggcag | tgtctctgct | gtatcatccc | agttttgcag | 180 |
| | aggtaacttg | aagccatctg | acctctctct | tttttttcc | tcagtgtctg | agggcagtta | 240 |
| | tctcaggggt | ccaatttatc | cattaatacc | aaccaaaca | tcagcatcaa | gtccgaaccg | 300 |
| | atttcacctc | ctcgggatcg | tatgacccca | tggggcttcc | agcagcagca | gcagcagcag | 360 |
| | cagcagcagc | cgccgccacc | accgcagccc | cagccacaac | ccccgcagcc | ccagccccga | 420 |
| | caggaaatgg | ggcgctcccc | tgtggacagt | ctgagcagct | ctagtagctc | ctatgatggc | 480 |
| | agtgatcggg | aggatccacg | gggcgacttc | cattctccaa | ttgtgcttgg | ccgaccccc | 540 |
| | aacactgagg | acagagaaag | cccttctgta | aagcgaatga | ggatggacgc | gtgggtgacc | 600 |
| | taaggcttcc | aagctgatgt | ttgtactttt | gtgttactgc | agtgacctgc | cctacatatc | 660 |
| | taaatcggt | aataaggaca | tgagttaa | atatttatat | gtacatacat | atatatatcc | 720 |
| | ctttacatat | atatgtatgt | gggtgtgagt | gtgtgtgtat | gtgtgggtgt | gtgttacata | 780 |
| | cacagaatca | ggcacttacc | tgcaaaactc | ttgtaggtct | gcagatgtgt | gtcccatggc | 840 |
| | agacaaagca | ccctgtaggc | acagacaagt | ctggcacttc | cttggactac | ttgtttcgta | 900 |
| | aagataacca | gtttttgcag | agaaacgtgt | acccatatat | aattctccca | cactagcttg | 960 |
| | cagaaacct | gagggcccc | tacttgtttt | atttaactgt | gcagtgactg | tagttactta | 1020 |
| | agagaaaatg | ctttgtagaa | cagagcagta | gaaaagcagg | aaccaagaaa | gcaatactgt | 1080 |
| | acataaaatg | tcatttatat | tttccaacct | ggcatgggtg | tctgttgcaa | aggggtgcat | 1140 |
| | gggaaagggc | tgttgatatt | aaaaacaaac | aaaacaaaaa | agccccacac | ataactgttt | 1200 |
| | tgcacgtgca | aaaatgtatt | gggtcaagaa | gtgatcttta | gctaataaag | aaagagaata | 1260 |

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|------|
| gaaaacacgc | atgagatatt | cagaaaatac | tagcctagaa | atatagagca | ttaacaaagt | 1320 |
| aaaattaata | tattaagtta | taattggaat | atgtcagaag | tttcttttta | cattcatatc | 1380 |
| ttaaaaatta | aagaaactga | ttttagctca | tgtatatttt | atatgaaaga | aaacaccctt | 1440 |
| atgaattgat | gactatatat | aaaattatat | tcactacttt | tgaacacatt | ctgctatgaa | 1500 |
| ttattttatat | aagccaaagc | tatatgttgt | aacttttttt | tagagaatag | ctttatcttg | 1560 |
| gtttaactct | ttagttttat | tttaagaggg | gaaaacaaaa | atatcttgca | agcagaacct | 1620 |
| tgaaaaaaaa | aaagccatga | acacttattc | taaatgtaaa | ttaaaagttg | agccaaactc | 1680 |
| tttgtgtata | tagcatctta | aatatattat | cacctttgat | gtaagtacct | atgtattgta | 1740 |
| tggtcaccag | attaaaaagt | atatttttgt | ggattgccgc | caatctgggg | ggaaaaggcg | 1800 |
| aggtccttta | ttaagtattc | actgtctaata | atttactatt | ttggtaaata | tactgtactt | 1860 |
| tggattttta | ttattaggcc | agtgttttca | gaggattgta | ttaaggggtt | tctccctca | 1920 |
| ctggtggggg | aatgtgtgat | ggttacaatg | gaatcttcgg | ggctgttttg | gtnggagcat | 1980 |
| caanatattt | tttgggttgt | ggtcaataaa | ttggaaaggg | gcaaaaaaaa | ttgggggtta | 2040 |
| agtccaaccc | gaataagaat | aaaatgtgtt | tgtaacaaga | tttaataagc | cattatttaa | 2100 |
| aacttcctt | ttgtgnggnn | naaatgtaga | aganaaacct | gacctaat | aattaatatn | 2160 |
| agagaaaatg | ccaaaatagn | agatgagccc | aaaggtttta | taagtggtaa | atgattaggg | 2220 |
| gaaaataatc | atggggaaag | ggatcttttt | tccttgaccc | tctgaaaaca | gaacgatgca | 2280 |
| gctggttaca | aaatcctacc | ggtatcagct | cttctgcaca | ttgcagtgat | gctttggtat | 2340 |
| gcggggagaa | acactcttag | ggtgccggtc | cttgccatga | ctcttgccat | tctaattgga | 2400 |
| attagtcca | ccctcagctt | ggattttgaa | caagccttat | tctttcagga | agacaactaa | 2460 |
| tggatgatag | caagttcatc | cacttactgg | gcttgtgcc | tgagcaaaat | tcaaagtcct | 2520 |
| gtatatcttt | cattgtagat | ttttaataac | tccttttcct | aaaaaactca | agggttttaa | 2580 |
| aattgctatt | ttatatttta | aatgatattg | agcagctacc | tacaatttct | atgtacattt | 2640 |
| tgttccccc | ccaccaccac | ccccaaatta | cgttcccttt | gacattttcc | tcactctgctg | 2700 |
| tttgtgacaa | gtcatcagcc | agatttcctg | actgacacat | aggatgatc | agtgcaggag | 2760 |
| agacctgcgc | accacaggct | gcaaactgga | ggttctgttc | tcattggcagg | ttgggcagta | 2820 |
| acttttgaga | gaggccaaaa | aaaggaggat | gacatgctgt | ctcctctctt | cagatagaca | 2880 |
| ttaggctctt | attcagaaag | gatttttctt | taaaaatgta | cttactttac | tgaactactt | 2940 |
| acaggcacat | ttcttcataa | ggccacacct | aatccaaaca | agacagtctc | ccaacactga | 3000 |
| agttccaaaa | taatccttac | cactttgtaa | accatttata | gctttgaaag | tgttaagtga | 3060 |
| ttccttcggt | attatttatg | catgttcacg | aacttctgct | ggacattgga | ataggagtta | 3120 |
| acacattcac | atttactgtc | tattttcttg | ggtgccttat | gagatggccn | cnctgacagt | 3180 |
| actccaatag | tctttctnng | tacgcaggnn | nataatcagc | acaactactg | ctttctagaa | 3240 |
| tactactact | caaggctcgg | cgttgggttt | aaattacact | gcaccaggta | acaatgaact | 3300 |
| ccatttcagg | aactgaatat | ttgactgtta | acctttttcc | catacgtcca | gtgtggcatg | 3360 |
| gagcatatgg | acttgacaga | catctctcac | ccagacgccc | acgtgtgaac | acacccacat | 3420 |
| ccacatctct | gggtggaaac | cagcctagag | aggggacgac | gctaattggtg | ttgctttaga | 3480 |
| accgtctttt | cttacccttt | tagactcgtg | ttttgtgtga | gacaccattg | caagaaaatt | 3540 |
| ttatccctcc | agaagtattt | tattactaaa | gaacaaaagc | aaaaaaagct | taaattgcac | 3600 |
| tggttaaagt | acagtttcca | acagctgtcc | ttcctcagta | ctctaattggc | cactccaccg | 3660 |
| cgagtgggaag | tactgttgt | gtgtacacag | gtggtcccaa | tcaaaaacttc | atcttgtgag | 3720 |
| cccaattatg | tccattttgt | tatagactaa | atcaggggtt | tgttctacaa | gaacaataca | 3780 |
| tgttttacct | tttcctttta | ctagaaggat | aactagtaat | gcatcaacat | aatttctgta | 3840 |
| ttaaccatca | tgcgcacaag | aaatacatag | gaaataagga | agaagaaaac | tcctggcatc | 3900 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| ggatcttaag | ctagatgatt | agaatgtgaa | aaagatttta | caaagttaa | acttctat | 3960 |
| ctctgtagaa | actttcttca | ctttgctgtg | caagaagaca | ctgctttgct | atattcaaaa | 4020 |
| tggcttttct | tacaagagat | ttatgtat | ggtaaagtgt | tgtagtcaac | agttcacaca | 4080 |
| agaagctgta | cacggtttga | tcatgtaaaa | ccgtttggcg | gcacaagctg | gactttgttg | 4140 |
| ccatccttga | gatgaacctt | ttaagaaaaa | taagttaatc | tcaatttttc | cctgaatgtg | 4200 |
| ttgttttct | tcattataca | ataaatataa | tagtgaactt | tttatcaa | ggtgaagaca | 4260 |
| atgctaaagg | ttgttgcaaa | ctgtttgtct | cccgactca | ctccagtaa | gacggactgg | 4320 |
| ctcttctgt | gcgtcgagac | tctgtcacgt | ttgcctgggg | acacaaggcg | ctggctttgc | 4380 |
| caccaggcag | ccccttcccc | taaagccctc | tcctttttca | ttcctttcac | gaagaccttc | 4440 |
| ttcaccgcga | ggcttctttc | tctgggttga | gacagggcc | aggaaaccgt | cccaacgccc | 4500 |
| cactgggc | | | | | | 4508 |

<210> 1939
 <211> 481
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1939 | actttgtagg | acaaaacata | gctgggttaac | cttgaagtga | ctggtgtacc | atgggtgtgc | 60 |
| | acatgcttca | gaatcctatg | gaagagaata | ttcctacttg | cagtacatca | aaggaatgga | 120 |
| | tgggtggacc | tactattcat | gttttgagac | ataaatgttc | actttaaagc | aattgcataa | 180 |
| | tagataaaaa | cctgaacttt | cattggattt | ttgttaattt | tcctcatttt | gaattatgtg | 240 |
| | cactaccata | gctacatcag | tttgatacag | tattgaaaaa | ttatcagtta | tattttgctg | 300 |
| | tttatgatct | atttgtagat | taggattaaa | atggatttaa | tccattttta | aggctgtgtg | 360 |
| | aatttttcta | aacaagaacc | atttgcaata | tggatttctt | agagattaaa | ccaattataa | 420 |
| | cttattagca | gtcgcgagca | catgttcata | tagtcaatgt | aaaaatacac | taatgagtat | 480 |
| | t | | | | | | 481 |

<210> 1940
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <223> n=a,t,g or c

| | | | | | | | |
|------------|------------|------------|------------|------------|-------------|------------|-----|
| <400> 1940 | cacaaaaaaa | aaatcactaa | aaattcccac | aaatcttggt | tctggcactt | tagaaaaact | 60 |
| | gcaaaaaaat | acgtaataaa | gaatacatat | atatatatct | acacacaaat | tatatatcta | 120 |
| | tctatctata | cagcggaacc | acaagagaga | ctgaggaagg | cctggaggca | ggggcagagg | 180 |
| | tgacgacagt | gcccctatat | ccttaaccca | tactcctctg | aggcaaacag | gcatgggaaa | 240 |
| | atggaagggt | tgaggatgga | ccggagaatt | ggaacttcag | aatagggtcaa | aattccaaaa | 300 |
| | ccatggacat | tttttttttg | gagaattgag | attgtagaca | tttttttttt | cttaaatatg | 360 |
| | atcaaggaaa | atagcttcca | gaatgtggtg | gttctgggca | acaaatgaga | ttgtggcgac | 420 |
| | gtggagatta | aaatatatgt | atttgagctg | gggaatttga | atattgtgag | tttcagatgt | 480 |
| | tggaaatttg | ggattttgca | gttttgtctt | ttgaaaatga | tcaagtcttg | tcagttcgtg | 540 |
| | ccctctttcc | ccatgttccc | tgggaagacg | ggtgggtggc | gagtgagaag | gccactggtc | 600 |
| | tgtgccgcac | acgcaaaatt | tagaatctcc | agctagctct | atcgtgtgag | gnccagatta | 660 |
| | gggaantgcc | atattacc | | | | | 678 |

<210> 1941
 <211> 379
 <212> DNA
 <213> Homo sapiens

<400> 1941
gagatataaa aatctgtatt tatattacaa tgacataagg acacagcacg gcccacacgg 60
tggacaggtg gccggggcca ctttccccct ctagegcacc cccctcacc ggcaccaggc 120
cctcgtgtgg ccccgactc tggcacggaa cctgccctag tgcccaacat ggacctgggg 180
ccaccctgct ggccgagggt cagggtcctc tgtgcaggca gtggggaggg ggtcccagg 240
tccttgacag agggaggcag ggcacggggg agcctgcctc acccagcgga cagcacgggc 300
cggggcagac agagcaggga ccctagggcc acagaccggt acaggggtcc accacccggg 360
gacacaggcc caagcaccg 379

<210> 1942
<211> 276
<212> DNA
<213> Homo sapiens

<400> 1942
ttttttttga aggcttttct tttattacat cttaaagagct ctacataaac aggtaacatt 60
caataggtaa acaatttttt tccaatgcat gtaataaata ttttcacttg gtacttttat 120
acaaactgac attgtctact atacattttt aaaagccatt ttactgggtt ggcattgcgg 180
atggaaattc taagagagaa agttttaagg caatgaatca cagatttaag ttcattggaat 240
ttatggtaac tttatctgtt tatgtacatt ttcccc 276

<210> 1943
<211> 324
<212> DNA
<213> Homo sapiens

<400> 1943
tcagagtatt gcaacacttt attaagagta ttggctttga atcagtagct gaagtaacaa 60
ttgcatgaag ccagattagg tgactgcat aatacccata ctcgatttat tgacattact 120
tagcaattta ctggacaaaa gtcaaacctt tttgtttttt attaagcaca ttccacagta 180
caaagctgtc atgaataata tctgtacaat ttaacagttt caaatagctg ttcagacaca 240
aatttatctc aaacagataa ttggcaaaca taattaattt acaagttaga attagactat 300
cccagtgtt taaaacatta atat 324

<210> 1944
<211> 308
<212> DNA
<213> Homo sapiens

<400> 1944
tcccaattag gacttaagga atgtgctggg acaaagttgg cttcagtgat caggttgttt 60
caagtcttag aattcaaact tcaattctaa aaaaatttta tcaacaaaac actgtgacca 120
aaaaatcact ttaaatttta aatattgaaa cgcaatagca tataaagatg gtataaccta 180
agatgctttt atttcattat attttcaata tctttacgca ttataacaac agaaatgtaa 240
cctactcaca ttgccatttg ttccattatg caatttgaag aaacatgtt tccttttatt 300
tttatgaa 308

<210> 1945
<211> 491
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<223> n=a,t,g or c

<400> 1945
tttggagtcc aagtctctta tctttatttt aacagactgg cagcatcagg tcgcagcagc 60
agtacagggt tcctggctgg gcagcacagg cctggggcga cagtccatgt cttgtctgcc 120
cagggcagtg tcaacttagg cctctactcc atggctgtga aaggacagca gcctcaaggc 180

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| agtctagctc | ctgggcacag | gcagccaaac | cccctcccat | atccagctaa | accagctcca | 240 |
| ggaaaggaga | aggctcctgtt | tccccggcat | ccttgggggcc | cagggactgg | ttctttcacc | 300 |
| ggatgatctt | gcctggttga | accacagcag | catttgggct | ttttcatcct | ttcctacatc | 360 |
| aagaactttc | ccaaatgtgg | gccctgggcg | taaggcaaaa | cagtggcctt | ggccaaggct | 420 |
| ctgggcctct | gggagggtcc | catctggcat | caggtggcgn | acaaacaggg | tgtcagcacg | 480 |
| gagagagctg | g | | | | | 491 |

<210> 1946
 <211> 328
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|-------------|------------|------------|------------|-----|
| <400> 1946 | tttttttttt | tgtttgtaaa | aatgaattta | ttaaaatgct | cataattata | aaagaatatt | 60 |
| | aaaatgcaca | gaaattaaca | ttaataatta | taaaagaata | ttaaaatgca | cagaaattaa | 120 |
| | cattaattac | aaactttaca | tcttatgcca | caatgtgtga | aaagcatcat | gaatagtctt | 180 |
| | acttcagtta | agctgctcat | acattttttac | cctctcaaac | ataatatgaa | cataaaatgg | 240 |
| | tacaagaagt | gtttcaacaa | gagtacattc | tgacccccat | tgtgaattaa | tgttttatga | 300 |
| | aattcaaggc | acacatgcaa | taaaaaag | | | | 328 |

<210> 1947
 <211> 1769
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|------------|------------|-------------|------------|------------|-------------|------|
| <400> 1947 | cctcactgac | tataaaagaa | tagagaagga | agggcttcag | tgaccggctg | cctggctgac | 60 |
| | ttacagcagt | cagactctga | caggatcatg | gctatgatgg | aggtccaggg | gggaccagc | 120 |
| | ctgggacaga | cctgcgtgct | gatcgtgatc | ttcacagtgc | tcctgcagtc | tctctgtgtg | 180 |
| | gctgtaactt | acgtgtactt | taccaacgag | ctgaagcaga | tgaggacaa | gtactccaaa | 240 |
| | agtggcattg | cttgtttctt | aaaagaagat | gacagttatt | gggaccccaa | tgacgaagag | 300 |
| | agtatgaaca | gcccctgctg | gcaagtcaag | tggaactcc | gtcagctcgt | tagaaagatg | 360 |
| | attttgagaa | cctctgagga | aaccatttct | acagttcaag | aaaagcaaca | aatattttct | 420 |
| | cccctagtga | gagaaagagg | tcctcagaga | gtagcagctc | acataactgg | gaccagagga | 480 |
| | agaagcaaca | cattgtcttc | tccaaactcc | aagaatgaaa | aggctctggg | ccgcaaaata | 540 |
| | aactcctggg | aatcatcaag | gagtgggcat | tcattcctga | gcaacttgca | cttgaggaat | 600 |
| | ggtgaactgg | tcatccatga | aaaagggttt | tactacatct | attcccaaac | atactttcga | 660 |
| | tttcaggagg | aaataaaaga | aaacacaaag | aacgacaaac | aatgggtcca | atatattttac | 720 |
| | aaatacacaa | gttatcctga | ccctatattg | ttgatgaaaa | gtgctagaaa | tagttgttgg | 780 |
| | tctaaagatg | cagaatatgg | actctattcc | atctatcaag | ggggaatatt | tgagcttaag | 840 |
| | gaaaatgaca | gaatttttgt | ttctgtaaca | aatgagcact | tgatagacat | ggaccatgaa | 900 |
| | gccagttttt | tcggggcctt | tttagttggc | taactgacct | ggaaagaaaa | agcaataacc | 960 |
| | tcaaagtgac | tattcagttt | tcaggatgat | acactatgaa | gatgtttcaa | aaaatctgac | 1020 |
| | caaaacaaac | aaacagaaaa | cagaaaacaa | aaaaacctct | atgcaatctg | agtagagcag | 1080 |
| | ccacaaccaa | aaaattctac | aacacacact | gttctgaaag | tgactcactt | atcccaagaa | 1140 |
| | aatgaaattg | ctgaaagatc | tttcaggact | ctacctcata | tcagtttgct | agcagaaatc | 1200 |
| | tagaagactg | tcagcttcca | aacattaatg | caatggttaa | catcttctgt | ctttataatc | 1260 |
| | tactccttgt | aaagactgta | gaagaaagcg | caacaatcca | tctctcaagt | agtgtatcac | 1320 |
| | agtagtagcc | tccaggtttc | cttaaggggac | aacatcctta | agtcaaaaga | gagaagaggc | 1380 |
| | accactaaaa | gatcgagttt | tgccctgggtg | agtggctcac | acctgtaatc | ccaacatttt | 1440 |
| | gggaacccaa | ggtgggtaga | tcacgagatc | aagagatcaa | gaccatagtg | accaacatag | 1500 |

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|
| tgaaaccca | tctctactga | aagtgcacaaa | attagctggg | tgtgttgga | catgcctgta | 1560 |
| gtcccagcta | cttgagaggc | tgaggcagga | gaatcgtttg | aacccgggag | gcagagggtg | 1620 |
| cagtgtggtg | agatcatgcc | actacactcc | agcctggcga | cagagcgaga | cttggtttca | 1680 |
| aaaaaaaaa | aaaaaaaaa | cttcagtaag | tacgtgttat | ttttttcaat | aaaattctat | 1740 |
| tacagtatgt | caaaaaaaaa | aaaaaaaaa | | | | 1769 |

<210> 1948
 <211> 9517
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-------------|------|
| <400> 1948 | ggtgctgctg | gagagagaaa | gccgcacccg | agaggagggtg | tgggtgttcc | gcttccatcc | 60 |
| | taacggaacg | agctccctct | tcgcgacat | gggattaccc | agcggctgct | aacccctctc | 120 |
| | ctcgccctgc | tccccaaac | cggcgtggct | ccccgggcac | caaggagctg | actacagagg | 180 |
| | agcaggattt | gcacccctcg | ctgggcttgc | tttggaaca | gagtgcctga | cccaggctcag | 240 |
| | gattttcaag | aaagacatgt | ctgacaaaat | gtctagcttc | ctacatattg | gagacatttg | 300 |
| | ttctctgtac | gcgaggggat | cgacaaatgg | atttattagc | accttgggccc | tggttgatga | 360 |
| | tcgttgtgtt | gtacagccag | aaaccgggga | ccttaacaat | ccacctaaga | aattcagaga | 420 |
| | ctgcctcttt | aagctatgtc | ccatgaaccg | ctactctgcc | caaaagcagt | tctggaaagc | 480 |
| | cgctaagcct | ggggccaaca | gcaccacaga | cgcagtgtga | ctcaacaaac | tgcaccacgc | 540 |
| | tgcagacttg | gaaaagaagc | agaatgagac | agaaaacagg | aaattgctgg | ggaccgtaat | 600 |
| | ccagtatggc | aatgtgatcc | agctcctgca | tttgaaaagt | aataaatacc | taacagttaa | 660 |
| | taagaggctt | cctgctctgt | tggagaagaa | tgccatgaga | gtcacattgg | acgaggctgg | 720 |
| | aatgaagggt | tcctgggttt | atattcagcc | attctacaag | ctgcgatcca | ttggagacag | 780 |
| | cgtggtcata | ggtgacaagg | tggttctgaa | ccccgtcaat | gctggtcagc | ccctacatgc | 840 |
| | tagcagccat | caactggtag | ataacccagg | ctgcaatgag | gtcaattccg | tcaactgcaa | 900 |
| | tacaagctgg | aaaatagtcc | ttttcatgaa | atggagtgat | aacaaagacg | acataattaa | 960 |
| | gggggggtgac | gtggtgaggc | tgtttcatgc | tgagcaggag | aagttttctca | cctgtgacga | 1020 |
| | acacaggaag | aagcagcagc | tcttcctgag | aaccacgggc | cggcagtcgg | ccacatctgc | 1080 |
| | caccagttca | aaagccctgt | gggagggtga | ggtggtccag | catgacccat | gtcggggcgg | 1140 |
| | agcagggtat | tggaaacagc | ttttccggtt | caagcatctg | gccacggggc | attacttggc | 1200 |
| | agcagagggtg | gaccctgatc | aggacgcctc | tcgaagtagg | ttgcggaatg | cccaagaaaa | 1260 |
| | gatggtatac | tccttgggtc | ctgtgcctga | aggcaatgac | atctcctcca | ttttcgagct | 1320 |
| | agatcccacc | actctgcgtg | gaggtgacag | ccttgtccca | aggaactctt | atgttcggct | 1380 |
| | cagacaccta | tgtactaata | cctgggttca | cagcacaat | attcctattg | acaaggaaga | 1440 |
| | agaaaagccc | gtgatgctga | aaattggcac | ctctcctgtg | aaggaggata | aggaagcatt | 1500 |
| | tgccatagtt | ccggtttctc | ctgctgaagt | tcgggacctg | gactttgcca | atgatgccag | 1560 |
| | caagggtgctg | ggctccattg | ctgggaagct | agagaagggc | accatcacc | agaatgaaag | 1620 |
| | gaggtctgta | accaagctgc | tagaagattt | ggtttacttc | gtcactgggtg | gaactaatc | 1680 |
| | tgggtcaagat | gttctcgaag | ttgtcttctc | caagcccaac | agagaacggc | agaaactgat | 1740 |
| | gagagaacag | aatattctca | agcagatctt | caagttgtta | caagcccat | tcacagactg | 1800 |
| | cgggtgatggc | ccaatgcttc | ggctggaaga | gctcggggac | cagcggcacg | ctcctttcag | 1860 |
| | acacatctgc | cggctctgct | acaggggtgct | gagacactcg | cagcaagact | acaggaagaa | 1920 |
| | ccaggagtat | atagccaagc | agtttggtct | catgcagaag | cagattgggt | atgatgtgtt | 1980 |
| | ggctgaagac | actatcactg | ccctgctcca | caataatcgg | aaactcctgg | aaaaacacat | 2040 |
| | taccgcggca | gagattgaca | catttgtcag | cctgggtgcga | aagaacaggg | agcccagatt | 2100 |

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|------|
| cttagattac | ctctccgacc | tctgtgtctc | catgaacaaa | tcaattccag | tgacccagga | 2160 |
| actgatatgt | aaagctgtgc | tgaacccccc | caacgctgac | atcctgattg | agaccaaatt | 2220 |
| ggttctttct | cgttttgaat | ttgaagggtg | ctcttccact | ggagagaatg | ctctggaggc | 2280 |
| aggagaagac | gaggaagagg | tgtggctggt | ttggagggac | agcaacaaag | agattcgcag | 2340 |
| caagagtgtg | agggaattgg | ctcaggatgc | taaagaaggg | cagaaggagg | accgagacgt | 2400 |
| tctcagctac | tacagatatc | agctgaacct | ctttgcgagg | atgtgtctg | accgccaata | 2460 |
| cctggccatc | aacgaaatct | caggccagct | ggatgtcgat | ctcattctcc | gctgcatgtc | 2520 |
| tgacgagaac | ctgccctatg | acctcagggc | gtccttctgc | cgccctcatg | ttcacatgca | 2580 |
| tgtggaccga | gatccccagg | aacaagtcac | ccccgtgaaa | tatgcccgcc | tctggtcgga | 2640 |
| gattccctcg | gagatcgcca | ttgacgacta | tgatagtagt | ggagcttcca | aagatgaaat | 2700 |
| taaggagaga | tttgctcaga | ccatggagtt | tgtggaggag | tatttaagag | atgtggtttg | 2760 |
| tcagaggttc | cctttctctg | ataaagagaa | gaataagctt | acgtttgagg | ttgtaaattt | 2820 |
| agctaggaat | ctcatatact | ttggtttcta | caacttctct | gaccttctcc | gattaactaa | 2880 |
| gatccttctg | gccatattgg | actgtgtaca | tgtgacaaca | atcttcccca | ttagcaagat | 2940 |
| ggcgaaagga | gaagagaata | aaggcagtaa | cgtgatgaga | tctattcatg | gcgtgggaga | 3000 |
| gctgatgacc | caggtggtgc | tccggggagg | aggctttttg | cccatgactc | ccatggctgc | 3060 |
| tgcccctgaa | ggcaatgtga | agcaggcaga | gcctgagaag | gaggacatca | tggtcatgga | 3120 |
| caccaagctg | aagatcattg | agatactcca | gtttattttg | aatgtgaggt | tggattatag | 3180 |
| gatctcctgc | ctcctgtgta | tatttaagcg | agagtttgat | gaaagcaatt | cccagacttc | 3240 |
| agaaacatcc | tccggaaaca | gcagccaaga | agggccaaagt | aatgtaccag | gtgctcttga | 3300 |
| ctttgaacac | attgaagaac | aagcagaagg | catctttgga | ggaagtgagg | agaacacccc | 3360 |
| actggacttg | gatgaccacg | gcggcagaac | ctttctccgt | gtcctgctcc | acttgacgat | 3420 |
| gcatgactac | ccaccctcgg | tgtcaggggc | cctgcagctc | ctcttccggc | acttcagcca | 3480 |
| gaggcaggag | gtgctccagg | ccttcaaaca | ggttcaactg | ctgggttacc | gccaagatgt | 3540 |
| ggacaactac | aaacagatca | aacaagactt | ggatcaactg | agggtccatg | tggaaaagtc | 3600 |
| agagcttttg | gtgtacaaa | ggcagggccc | cgatgagact | atggatgggt | catctggaga | 3660 |
| aatgaacat | aagaaaacgg | aggagggaaa | taacaagcca | caaaagcatg | aaagcaccag | 3720 |
| cagctacaac | tacagagtgg | tcaaagagat | tttgattcgg | cttagcaaac | tctgtgttca | 3780 |
| agagagtgcc | tcagtgagaa | agagcaggaa | gcagcaacag | cgtctgctcc | ggaacatggg | 3840 |
| cgcgacgccc | gtggtgctgg | agctgctgca | gattccctat | gagaaggccg | aagataccaa | 3900 |
| gatgcaagag | ataatgaggt | tggtcatga | atttttgcag | aattttctgc | caggcaacca | 3960 |
| gcagaatcaa | gctttgctac | ataaacacat | aaacctgttt | ctcaaccagg | ggatcctgga | 4020 |
| ggcagtaacc | atgcagcaca | tcttcatgaa | caatttccag | ctttgcagtg | agatcaacga | 4080 |
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<210> 1949
 <211> 4587
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<210> 1950
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| cgtaccgtga | tcagaaagtg | aaattaaagc | tcatggatat | gcgtgagaag | agaatgggag | | 180 |
| cagaggcacg | agtccagtat | cccacggaga | gaaggaagtg | tagagagatg | cgtggaccca | | 240 |
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| ctggctggc | | | | | | | 309 |

<210> 1951
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| tgtcattttc | agtgaagcta | ttgcctaatt | accctggaaa | aaagtattct | tatgactgaa | | 180 |

